

## NRC LIAISON REPORT

### **NRC SIGNS NUCLEAR SAFETY COOPERATION AGREEMENTS WITH SEVEN NATIONS**

The U.S. Nuclear Regulatory Commission Chairman Gregory B. Jaczko signed agreements with representatives of seven countries for peaceful cooperation in nuclear safety matters while in Vienna, Austria this week to participate in the annual International Atomic Energy Agency's General Conference (GC) as a member of the U.S. Delegation. The countries are: Australia, Canada, Japan, Lithuania, Poland, and Slovakia. With the agreements signed at the GC, the NRC now has agreements in place with 41 countries.

**Dominion Addresses Need For Third Nuclear Reactor At North Anna.** The AP (9/29) reports, "Dominion Resources Inc. says if it doesn't build a third nuclear reactor at its North Anna Power Station, it will need to build another power generation source in its place." On Tuesday, CEO Thomas F. Farrell II spoke "at the Bank of America Merrill Lynch Power & Gas Leaders Conference in New York about the potential reactor at the central Virginia plant." According to Farrell "the company is looking for a partner to build the third nuclear reactor, but isn't going to build it itself right now.

**NRC Decision On Waste Confidence Means Spent Fuel Will Remain Onsite For Now.** The Harrisburg (PA) Patriot-News (9/22, Miller) reports, "In response to a lack of long-term options, nuclear plants will be allowed to store high-level radioactive spent fuel on-site for up to 60 years after the plant stops operating, the US Nuclear Regulatory Commission has ruled." NRC spokesman Neil Sheehan, "said the decision is in response to the lack of a national nuclear waste storage site." And with "prospects for a repository at this point" so "'uncertain,' he said," the "NRC decided it would be prudent to look at other options going forward,' he said." At "TMI's Unit 1, nuclear waste is stored in the spent fuel pool building, said Ralph DeSantis, spokesman for plant owner Exelon. The low-level radioactive steam generator components taken out of Unit 1 last year are being stored in a newly constructed concrete building, he said."

**First Components For New Plant Vogtle Reactors Arrive On Site.** The [Waynesboro \(GA\) True Citizen](#) (9/15, Kyzer) reports, "A milestone in Plant Vogtle expansion was marked last week with the arrival of the first major components of units 3 and 4." Site VP David Jones said the unloading of the massive steel plates Tuesday was "a major milestone for Plant Vogtle with these being the first major nuclear components to arrive on site." The "four plates are the first of 58 that will be welded together to form the bottom head of the unit 3 containment vessel," and were manufactured in Japan. Westinghouse subcontractor Chicago Bridge and Iron, "will weld the steel plates together" and as the "five major sections of each vessel are completed, Jones said they will

be set into place by the world's largest crane," but won't be "set into the power block until" the NRC approves the Combined Operating License.

**Generic Letters: None after 2008-01 on Gas Accumulation issued in Jan 2008**

## Information Notices - 2010

File Name	Date	Description
<a href="#">in2010-20</a>	09/24/2010	Turbine-Driven Auxiliary Feedwater Pump Repetitive Failures
<a href="#">in2010-19</a>	09/16/2010	Updated Probabilistic Seismic Hazard Estimates in Central and Eastern United States
<a href="#">in2010-18</a>	09/02/2010	Implications of Updated Probabilistic Seismic Hazard Estimates in Central and Eastern United States on Existing Plants
<a href="#">in2010-17</a>	09/10/2010	Common Cause Failure of Boiling-Water Reactor Recirculation Pumps with Variable Speed Drives
<a href="#">in2010-16</a>	08/13/2010	Failure To Disable Unsafe Geometry Bandsaw Reservoir Results In Criticality Safety-Related Alert
<a href="#">in2010-15</a>	08/13/2010	Fuel Cycle Facility Configuration Management Errors
<a href="#">in2010-14</a>	08/04/2010	Containment Concrete Surface Condition Examination Frequency And Acceptance Criteria
<a href="#">in2010-13</a>	07/22/2010	Failure to Ensure that the Post-Fire Shutdown Procedures Can Be Performed
<a href="#">in2010-12</a>	06/18/2010	Containment Liner Corrosion
<a href="#">in2010-11</a>	06/16/2010	Potential for Steam Voiding Causing Residual Heat Removal System Inoperability
<a href="#">in2010-10</a>	05/28/2010	Implementation of a Digital Control System Under 10 CFR 50.59
<a href="#">in2010-09</a>	04/14/2010	Importance of Understanding Circuit Breaker Control Panel Indications

### Regulatory Issue Summary

Document Number	Date	Title
<a href="#">RIS 10-08</a>	06/28/2010	Preparation and Scheduling of Operator Licensing Examinations
<a href="#">RIS 10-07</a>	06/08/2010	Regulatory Requirements for Application of Weld Overlays and Other Migration Techniques in Piping Systems Approved for Leak-Before-Break
<a href="#">RIS 10-06</a>	06/01/2010	Inservice Inspection and Testing Requirements of Dynamic Restraints (Snubbers)
<a href="#">RIS 10-05</a>	05/24/2010	Applicability of 10 CFR Part 21 Requirements to Applicants for Standard Design Certifications
<a href="#">RIS 10-04</a>	05/25/2010	Monitoring the Status of Regulated Activities during a Pandemic
<a href="#">RIS 10-03</a>	02/25/2010	Licensing Submittal Information For Small Modular Reactor Designs
<a href="#">RIS 10-02</a>	01/21/2010	The Global Threat Reduction Initiative (GTRI) Federally Funded Voluntary Security Enhancements for High-Risk Radiological Material
<a href="#">RIS 10-01</a>	02/03/2010	Process For Scheduling Acceptance Reviews Of New Reactor Licensing Applications And Process For Determining Budget Needs For Fiscal Year 2012

### Regulatory Guides Out For Comment

Task Number	Title	Publish Date
DG-1176	Guidance for the Assessment of Beyond-Design-Basis Aircraft Impacts ( <a href="#">ML073170252</a> )	07/2009
DG-1191	Design, Fabrication, and Materials Code Case Acceptability, ASME Section III ( <a href="#">ML090900381</a> )	06/2009
DG-1192	Inservice Inspection Code Case Acceptability, ASME Section XI, Division 1 ( <a href="#">ML090900445</a> )	06/2009
DG-1193	ASME Code Cases Not Approved for Use ( <a href="#">ML090900461</a> )	06/2009
DG-1195	Availability of Electric Power Sources ( <a href="#">ML080570075</a> ) <b>New Revision DG 1244 Below</b>	05/2008
DG-1199	Alternative Radiological Source Terms for Evaluating Design Basis Accidents at Nuclear Power Reactors ( <a href="#">ML090960464</a> )	10/2009
DG-1211	Materials and Inspections for Reactor Vessel Closure Studs ( <a href="#">ML082820439</a> )	04/2009

DG-1216	Plant-Specific Applicability of Transition Break Size Specified in 10 CFR 50.46a ( <a href="#">ML100430356</a> )	06/2010
DG-1217	Protection Against Turbine Missiles ( <a href="#">ML092250316</a> )	10/2009
DG-1220	Performance-Based Containment Leak-Test Program ( <a href="#">ML090490183</a> )	04/2009
DG-1221	Control of Stainless Steel Weld Cladding of Low-Alloy Steel Components ( <a href="#">ML090750044</a> )	06/2009
DG-1222	Control of Preheat Temperature for Welding of Low-Alloy Steel ( <a href="#">ML090750343</a> )	06/2009
DG-1223	Control of Electroslag Weld Properties ( <a href="#">ML090750626</a> )	06/2009
DG-1224	Control of the Processing and Use of Stainless Steel ( <a href="#">ML090750744</a> )	06/2009
DG-1226	An Approach for Using Probabilistic Risk Assessment in Risk-Informed Decisions on Plant-Specific Changes to the Licensing Basis ( <a href="#">ML091200100</a> )	08/2009
DG-1227	An Approach for Plant-Specific, Risk-Informed Decision making: Technical Specifications ( <a href="#">ML091200294</a> )	08/2009
DG-1228	Standard Format and Content of License Termination Plans for Nuclear Power Reactors ( <a href="#">ML100840408</a> )	08/2010
DG-1229	Assuring the Availability of Funds for Decommissioning Nuclear Reactors ( <a href="#">ML091420223</a> )	06/2009
DG-1234	Water Sources for Long-Term Recirculation Cooling Following a Loss-of-Coolant Accident ( <a href="#">ML092850003</a> )	06/2010
DG-1237	Guidance on Making Changes to Emergency Plans for Nuclear Power Reactors ( <a href="#">ML090080534</a> )	05/2009
DG-1240	Condition Monitoring Program for Electric Cables Used in Nuclear Power Plants ( <a href="#">ML100760364</a> )	06/2010
DG-1242	Service Level I, II, and III Protective Coatings Applied to Nuclear Power Plants ( <a href="#">ML093410510</a> )	03/2010
DG-1244	Availability Of Electric Power Sources ( <a href="#">ML100840581</a> )	09/2010
DG-1247	Design-Basis Hurricane and Hurricane Missiles for Nuclear Power Plants ( <a href="#">ML100480890</a> )	08/2010
DG-1248	Nuclear Power Plant Simulation Facilities For Use In Operator Training, License Examinations, And Applicant Experience Requirements ( <a href="#">ML100770145</a> )	05/2010
DG-1249	Criteria for use of Computers in Safety Systems of Nuclear Power Plants ( <a href="#">ML100490539</a> )	06/2010

## Regulatory Guides Issued

1.28	<p>Quality Assurance Program Criteria (Design and Construction)</p> <ul style="list-style-type: none"> <li>Prior to the issuance of Revision 4, RG 1.28 was entitled "Quality Assurance Program Requirements (Design and Construction)"</li> </ul>	4	<a href="#">06/2010</a>
1.211	Qualification of Safety-Related Cables and Field Splices for Nuclear Power Plants	--	<a href="#">04/2009</a>
1.47	Bypassed and Inoperable Status Indication for Nuclear Power Plant Safety Systems	--	2/2010
1.213	Qualification of Safety-Related Motor Control Centers for Nuclear Power Plants	--	<a href="#">05/2009</a>
1.215	"Guidance for ITAAC Closure Under 10 CFR Part 52."	--	<a href="#">10/2009</a>
1.100	<p>Seismic Qualification of Electric and Mechanical Equipment for Nuclear Power Plants</p> <p>Draft EE 108-5, Proposed Revision 2, published 08/1987  <a href="#">DG-1175</a>, Proposed Revision 3, published 05/2008  <a href="#">Staff's responses to public comments</a> on DG-1175</p>	3	<a href="#">09/2009</a>
1.68.2	<p>Initial Startup Test Program To Demonstrate Remote Shutdown Capability for Water-Cooled Nuclear Power Plants</p> <ul style="list-style-type: none"> <li><a href="#">DG-1236</a>, Proposed Revision 2, published 08/2009</li> <li><a href="#">Staff's responses to public comments on DG-1236</a></li> </ul>	2	<a href="#">04/2010</a>
1.62	Manual Initiation of Protective Actions	1	6/2010
1.151	Instrument sensing lines Draft 126-5	1	7/2010
1.216	Containment Structural Integrity Evaluation for Internal Pressure Loadings Above Design-Basis Pressure	-	8/2010

## Interim Staff Guidance Associated with Digital Instrumentation & Controls

Some links on this page are to documents in our [Agencywide Documents Access and Management System](#) (ADAMS), and others are to documents in Adobe Portable Document Format (PDF). ADAMS documents are provided in either PDF or Tagged Image File Format (TIFF). To obtain free viewers for displaying these formats, see our [Plugins, Viewers, and Other Tools](#) page. If you have questions about search techniques or problems with viewing or printing documents from ADAMS, please contact the [Public Document Room staff](#).

DI&C-ISG-01	Cyber Security  <a href="#">Interim Staff Guidance on Digital Instrumentation and Control, Cyber Security, December 31, 2007</a>
DI&C-ISG-02	Diversity and Defense-in-Depth (D3)  <a href="#">Revision 2, Interim Staff Guidance on Diversity and Defense-in-Depth Issues, June 5, 2009</a> <a href="#">Interim Staff Guidance on Diversity and Defense-in-Depth Issues, September 26, 2007</a>
DI&C-ISG-03	Risk-Informed Digital Instrumentation and Controls  <a href="#">Interim Staff Guidance on Review of New Reactor Digital Instrumentation and Control Probabilistic Risk Assessments</a>
DI&C-ISG-04	Highly Integrated Control Rooms – Digital Communication Systems  <a href="#">Revision 1, Interim Staff Guidance on Highly-Integrated Control Rooms – Communications Issues (HICRc), March 2009</a> <a href="#">Interim Staff Guidance on Highly-Integrated Control Rooms – Communications Issues (HICRc), September 28, 2007</a>
DI&C-ISG-05	Highly Integrated Control Rooms – Human Factors  <a href="#">Revision 1 to Interim Staff Guidance on Highly Integrated Control Rooms - Human Factors Issues (HICR-HF)</a> <a href="#">Interim Staff Guidance on Highly-Integrated Control Rooms – Human Factors Issues (HICR-HF), September 28, 2007</a>

DI&C-ISG-06	Licensing Process Draft ISG Currently Under Revision
DI&C-ISG-07	Fuel Cycle Facilities <a href="#">Interim Staff Guidance on Digital Instrumentation and Control Systems in Safety Applications at Fuel Cycle Facilities, June 1, 2009</a>

## ***Plant Applications for License Renewal***

### **Completed Applications:**

- [Calvert Cliffs, Units 1 and 2](#)
- [Oconee Nuclear Station, Units 1, 2 and 3](#)
- [Arkansas Nuclear One, Unit 1](#)
- [Edwin I. Hatch Nuclear Plant, Units 1 and 2](#)
- [Turkey Point Nuclear Plant, Units 3 and 4](#)
- [North Anna, Units 1 and 2, and Surry, Units 1 and 2](#)
- [Peach Bottom, Units 2 and 3](#)
- [St. Lucie, Units 1 and 2](#)
- [Fort Calhoun Station, Unit 1](#)
- [McGuire, Units 1 and 2, and Catawba, Units 1 and 2](#)
- [H.B. Robinson Nuclear Plant, Unit 2](#)
- [R.E. Ginna Nuclear Power Plant, Unit 1](#)
- [V.C. Summer Nuclear Station, Unit 1](#)
- [Dresden, Units 2 and 3, and Quad Cities, Units 1 and 2](#)
- [Farley, Units 1 and 2](#)
- [Arkansas Nuclear One, Unit 2](#)
- [D.C. Cook, Units 1 and 2](#)
- [Millstone, Units 2 and 3](#)
- [Point Beach, Units 1 and 2](#)
- [Browns Ferry, Units 1, 2, and 3](#)
- [Brunswick, Units 1 and 2](#)
- [Nine Mile Point, Units 1 and 2](#)
- [Monticello](#)
- [Palisades](#)
- [James A. FitzPatrick](#)
- [Wolf Creek, Unit 1](#)
- [Harris, Unit 1](#)
- [Oyster Creek](#)
- [Vogtle, Units 1 and 2](#)

- [Three Mile Island, Unit 1](#)
- [Beaver Valley, Units 1 and 2](#)
- [Susquehanna, Units 1 and 2](#)
- [James A. FitzPatrick](#)
- [Wolf Creek, Unit 1](#)
- [Harris, Unit 1](#)
- [Oyster Creek](#)
- [Vogtle, Units 1 and 2](#)
- [Three Mile Island, Unit 1](#)
- [Beaver Valley, Units 1 and 2](#)
- [Susquehanna, Units 1 and 2](#)

### **Applications Currently Under Review:**

#### **Pilgrim 1, Unit 1 - Application received January 27, 2006**

- [Vermont Yankee](#) - Application received January 27, 2006
- [Indian Point, Units 2 and 3](#) - Application received April 30, 2007
- [Prairie Island, Units 1 and 2](#) - Application received April 15, 2008
- [Kewaunee Power Station](#) - Application received August 14, 2008
- [Cooper Nuclear Station](#) - Application received September 30, 2008
- [Duane Arnold Energy Center](#) - Application received October 1, 2008
- [Palo Verde, Units 1, 2, and 3](#) - Application received December 15, 2008
- [Crystal River, Unit 3](#) - Application received December 18, 2008
- [Hope Creek](#) - Application received August 18, 2009
- [Salem, Units 1 and 2](#) - Application received August 18, 2009
- [Diablo Canyon, Units 1 and 2](#) - Application received November 24, 2009
- [Columbia Generating Station](#) - Application received January 20, 2010
- [Seabrook Station, Unit 1](#) - Application received June 1, 2010
- [Davis-Besse Nuclear Power Station, Unit 1](#) - Application received August 30, 2010

**<http://www.nrc.gov/reactors/operating/licensing/renewal/applications.html>**

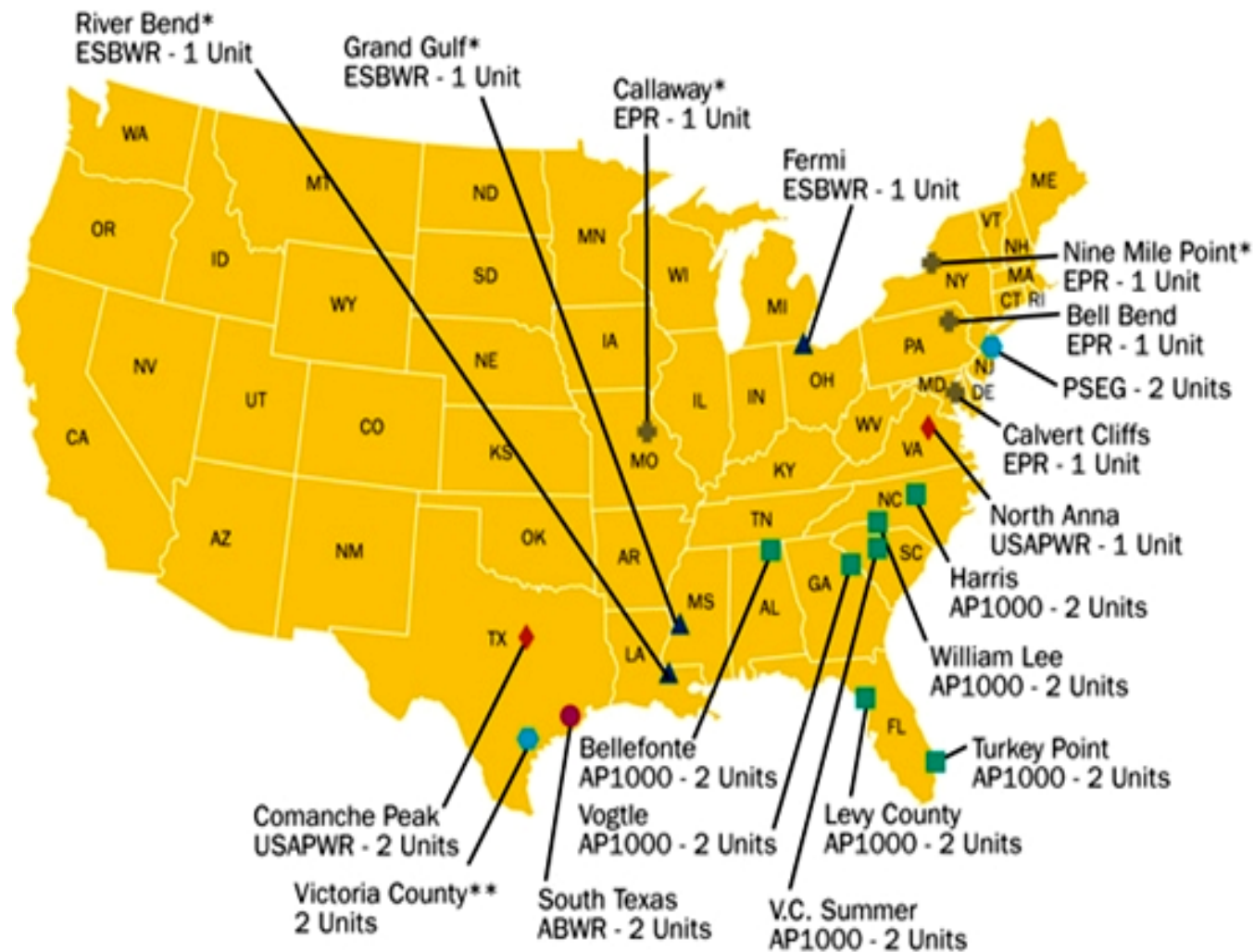


## ***COL Applications Received***

The links in the table below provide information on the COL applications that the NRC has received to date. The activities associated with reviewing these applications are reflected in the individual links for docketed COL applications.

<b>Proposed New Reactor(s)</b>	<b>Design</b>	<b>Applicant</b>
<a href="#">Bell Bend Nuclear Power Plant</a>	<a href="#">U.S. EPR</a>	PPL Bell Bend, LLC
<a href="#">Bellefonte Nuclear Station, Units 3 and 4</a>	<a href="#">AP1000</a>	Tennessee Valley Authority (TVA)
<a href="#">Callaway Plant, Unit 2</a>	<a href="#">U.S. EPR</a>	AmerenUE
<a href="#">Calvert Cliffs, Unit 3</a>	<a href="#">U.S. EPR</a>	Calvert Cliffs 3 Nuclear Project, LLC and UniStar Nuclear Operating Services, LLC
<a href="#">Comanche Peak, Units 3 and 4</a>	<a href="#">US-APWR</a>	Luminant Generation Company, LLC (Luminant)
<a href="#">Fermi, Unit 3</a>	<a href="#">ESBWR</a>	Detroit Edison Company
<a href="#">Grand Gulf, Unit 3</a>	<a href="#">ESBWR</a>	Entergy Operations, Inc. (EOI)
<a href="#">Levy County, Units 1 and 2</a>	<a href="#">AP1000</a>	Progress Energy Florida, Inc. (PEF)
<a href="#">Nine Mile Point, Unit 3</a>	<a href="#">U.S. EPR</a>	Nine Mile Point 3 Nuclear Project, LLC and UniStar Nuclear Operating Services, LLC (UniStar)
<a href="#">North Anna, Unit 3</a>	<a href="#">US-APWR</a>	Dominion Virginia Power (Dominion)
<a href="#">River Bend Station, Unit 3</a>	<a href="#">ESBWR</a>	Entergy Operations, Inc. (EOI)
<a href="#">Shearon Harris, Units 2 and 3</a>	<a href="#">AP1000</a>	Progress Energy Carolinas, Inc. (PEC)
<a href="#">South Texas Project, Units 3 and 4</a>	<a href="#">ABWR</a>	South Texas Project Nuclear Operating Company (STPNOC)
<a href="#">Turkey Point, Units 6 and 7</a>	<a href="#">AP1000</a>	Florida Power and Light Company (FPL)
<a href="#">Virgil C. Summer, Units 2 and 3</a>	<a href="#">AP1000</a>	South Carolina Electric & Gas (SCE&G)
<a href="#">Vogtle, Units 3 and 4</a>	<a href="#">AP1000</a>	Southern Nuclear Operating Company (SNC)
<a href="#">William States Lee III, Units 1 and 2</a>	<a href="#">AP1000</a>	Duke Energy

**Location of Location of Projected New Nuclear Power Reactors***For applications that have been received by the NRC, you may select a site name to view the NRC's website for the specific COL application. Websites for the remainder of the applications will be created when they are received.*



● ABWR 
 ■ AP1000 
 + EPR 
 ▲ ESBWR 
 ◆ USAPWR 
 ▽ Design/Units - TBA 
 ● ESP

\*Review Suspended by Applicant

\*\* COL Application Amended by Applicant to ESP on 03/25/2010

## ***Issued Design Certifications***

The NRC staff has issued the following design certifications:

<b>Design</b>	<b>Applicant</b>
<a href="#">Advanced Boiling Water Reactor (ABWR)</a>	General Electric (GE) Nuclear Energy
System 80+	Westinghouse Electric Company
Advanced Passive 600 (AP600)	Westinghouse Electric Company
<a href="#">Advanced Passive 1000 (AP1000)</a>	Westinghouse Electric Company

## ***Design Certification Applications Currently Under Review***

The staff is currently reviewing the following design certification applications:

<b>Design</b>	<b>Applicant</b>
<a href="#">AP1000 Amendment</a>	Westinghouse Electric Company
ABWR Design Certification Rule (DCR) Amendment	South Texas Project Nuclear Operating Company
<a href="#">Economic Simplified Boiling-Water Reactor (ESBWR)</a>	GE-Hitachi Nuclear Energy
<a href="#">U.S. Evolutionary Power Reactor (U.S. EPR)</a>	AREVA Nuclear Power
<a href="#">U.S. Advanced Pressurized-Water Reactor (US-APWR)</a>	Mitsubishi Heavy Industries, Ltd.

## ***Issued Early Site Permits***

The NRC staff has issued the following ESPs:

Site	Applicant
<a href="#">Clinton ESP Site</a>	Exelon Generation Company, LLC
<a href="#">Grand Gulf ESP Site</a>	System Energy Resources Inc.
<a href="#">North Anna ESP Site</a>	Dominion Nuclear North Anna, LLC
<a href="#">Vogtle ESP Site</a>	Southern Nuclear Operating Company

## ***Early Site Permit Applications Currently Under Review***

The staff is currently reviewing the following ESP applications:

Site	Applicant
<a href="#">Victoria County Station</a>	Exelon Nuclear Texas Holdings, LLC (Exelon)
<a href="#">PSEG Site</a>	PSEG Power, LLC, and PSEG Nuclear, LLC (PSEG)

## ***Ongoing Rulemaking and Regulatory Guidance Development***

The NRC is proposing several changes to its regulations that will affect the design, licensing, and operation of new reactors. These and other proposed rule changes, as well as changes to associated NRC regulatory guides, are accessible through the [Rulemaking](#) page. In addition, the following external links are particularly relevant to new reactors:

- [Consideration of Aircraft Impacts for New Nuclear Power Reactor Designs](#) **EXIT**
- [Power Reactor Security Requirements](#) **EXIT**