

## NRC LIAISON REPORT

- **STP first company to step forward in decades seeking new reactor license**

The application, a 200,000-page document submitted on a single DVD, was filed on September 24. The staff and STP officials met October 11 for the first public meeting since the application was filed. NRC staffers outlined several issues during the meeting, including a lack of supporting documents for at least two sections, outdated data for one section, missing figures for another and, in one instance, the absence of state emergency preparedness plans that were cross-referenced in the application.

- **TVA Opts For AP1000 Design Instead Of Completing Partially Finished Existing Reactors.**

TVA is submitting the combined operating license request nearly two decades after work stopped in 1988 toward building two similar-sized reactors at Bellefonte. TVA officials determined that finishing those reactors, which the agency started building in 1973, would be too costly." Application will be the first involving construction of a Westinghouse AP1000 advanced reactor, made by Westinghouse Electric Co., which is owned by Japan's Toshiba Corp.

- **Grid Security**

A video released last month by CNN illustrates the potential danger to the power grid, experts say. While in the past, most had imagined a cyberattack might shut down patches of the US grid for a few days at worst, But the video shows a demonstration by the Idaho National Laboratory that a large electric generator shaking violently, spraying metal parts, and spewing smoke before grinding to a stop. The method of attack used in that demonstration could be replicated to destroy more and larger equipment, several experts say. Damage from such an attack would not be easy to repair quickly, because parts such as turbines are often huge, take a long time to build, and are made mostly overseas.

- **NRC accepts Beaver Valley License Renewal Application**

The U.S. Nuclear Regulatory Commission yesterday said it has accepted for review a 20-year license renewal application for FirstEnergy Corp.'s Beaver Valley nuclear power plant in Shippingport, Beaver County. The license renewals for the 5,800-megawatt power plant would begin in 2016 for Unit 1 and 2026 for Unit 2, when their current licenses end.

- **The NRC is preparing to receive applications for 30 new reactors by the end of 2008.**
- **UniStar's partial COL application:** Two months after NRC sent a list of questions to UniStar Nuclear about its partial application for a combined

construction permit-operating license, or COL, the company has not yet responded with the requested information. NRC had identified in its August 23 letter eight areas of the partial COL application, submitted in July, that did not contain sufficient information for the staff to begin an acceptance review — a crucial step for determining whether the staff can docket the application and conduct a full evaluation. The staff cited “deficiencies” in the environmental report and said details were lacking that likely would be provided later as part of the US-EPR design certification application, which is expected to be filed before the end of the year. It asked UniStar Nuclear to provide a schedule for submitting the missing information.

- **Generic Letter Issued in 2007**

2007-01: Inaccessible or underground power cable failures that disable accident mitigation systems or cause plant transients

- **Information Notices Issued in 2007**

2007-28: Potential Common Cause Vulnerabilities in Essential Service Water Systems Due to Inadequate Chemistry Controls

To inform the importance of maintaining essential service water (ESW) systems in a manner that precludes the development of potential common cause failure vulnerabilities due to inadequate water chemistry controls. It is expected that recipients will review the information for applicability to their facilities and consider actions, as appropriate, to avoid similar problems.

2007-27: Recurring Events Involving Emergency Diesel Generator Operability

A staff evaluation of recent operating experience to identify recurring events involving the operability of emergency diesel generators (EDGs). The NRC expects that recipients will review the information for applicability to their facilities and consider actions, as appropriate, to avoid similar problems.

2007-18: Operating Experience Regarding Entrainment of Gas or Debris into Auxiliary Feedwater Systems

Several events have occurred at nuclear power facilities involving possible entrainment of gas or debris into AFW systems. Air or debris entrained in AFW systems can impact the capability of the AFW pumps to perform their specified safety functions.

#### 2007-14: Loss of Offsite Power and Dual-unit Trip at Catawba Nuclear Generating Station

A loss-of-offsite-power (LOOP) and dual-unit trip event that occurred at the Catawba Nuclear Generating Station (Catawba) due to circuit transformer (CT) failures and improper switchyard bus differential relay settings.

#### 2007-09: Equipment Operability under Degraded Voltage Conditions

An event in which safety-related pump motors did not have adequate voltage at the starter circuit to ensure operability under degraded voltage conditions and a related deficiency involving a surveillance test procedure that specified an incorrect value for the emergency diesel generator (EDG) minimum acceptable voltage.

- **Regulatory Issue Summary**

RIS-07-24: NRC Staff Position on Use of the Westinghouse Crossflow Ultrasonic Flow Meter for Power Uprate or Power Recovery

- **Regulatory Guides Out For Comment**

| Task Number | Title  | Publish Date |
|-------------|--|--------------|
| DG-1132     | Qualification of Safety-Related Cables and Field Splices for Nuclear Power Plants ( <a href="#">ML071440445</a> )  | 06/2007      |
| DG-1138     | (Proposed Appendix C to Regulatory Guide 1.200) NRC Staff Regulatory Position on ANS External Hazards PRA Standard ( <a href="#">ML042430314</a> )                     | 09/2004      |
| DG-1148     | Qualification of Safety-Related Battery Chargers & Inverters for Nuclear Power Plants ( <a href="#">ML071440292</a> )  | 07/2007      |
| DG-1173     | Guidance on Monitoring and Responding to Reactor Coolant System Leakage (Proposed Revision 1 of Regulatory Guide 1.45, dated May 1973) ( <a href="#">ML071070410</a> ) | 06/2007      |

#### The Web address for accessing Draft RGs

<http://www.nrc.gov/reading-rm/doc-collections/reg-guides/power-reactors/draft-index.html>

- **License Renewal Activities**

**Completed Applications: 24**

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

**Applications Currently Under Review: 10**

Oyster Creek - Application received July 22, 2005  
Pilgrim 1 - Application received January 27, 2006  
Vermont Yankee - Application received January 27, 2006  
James A. FitzPatrick - Application received August 1, 2006  
Susquehanna - Application received September 15, 2006  
Wolf Creek - Application received October 4, 2006  
Harris - Application received November 16, 2006  
Indian Point - Application received April 30, 2007  
Vogtle - Application received June 29, 2007  
Beaver Valley - Application received August 28, 2007

**Future Submittals of Applications: 23 Letters of Intent received**