



U.S. EPR EQ Program Update

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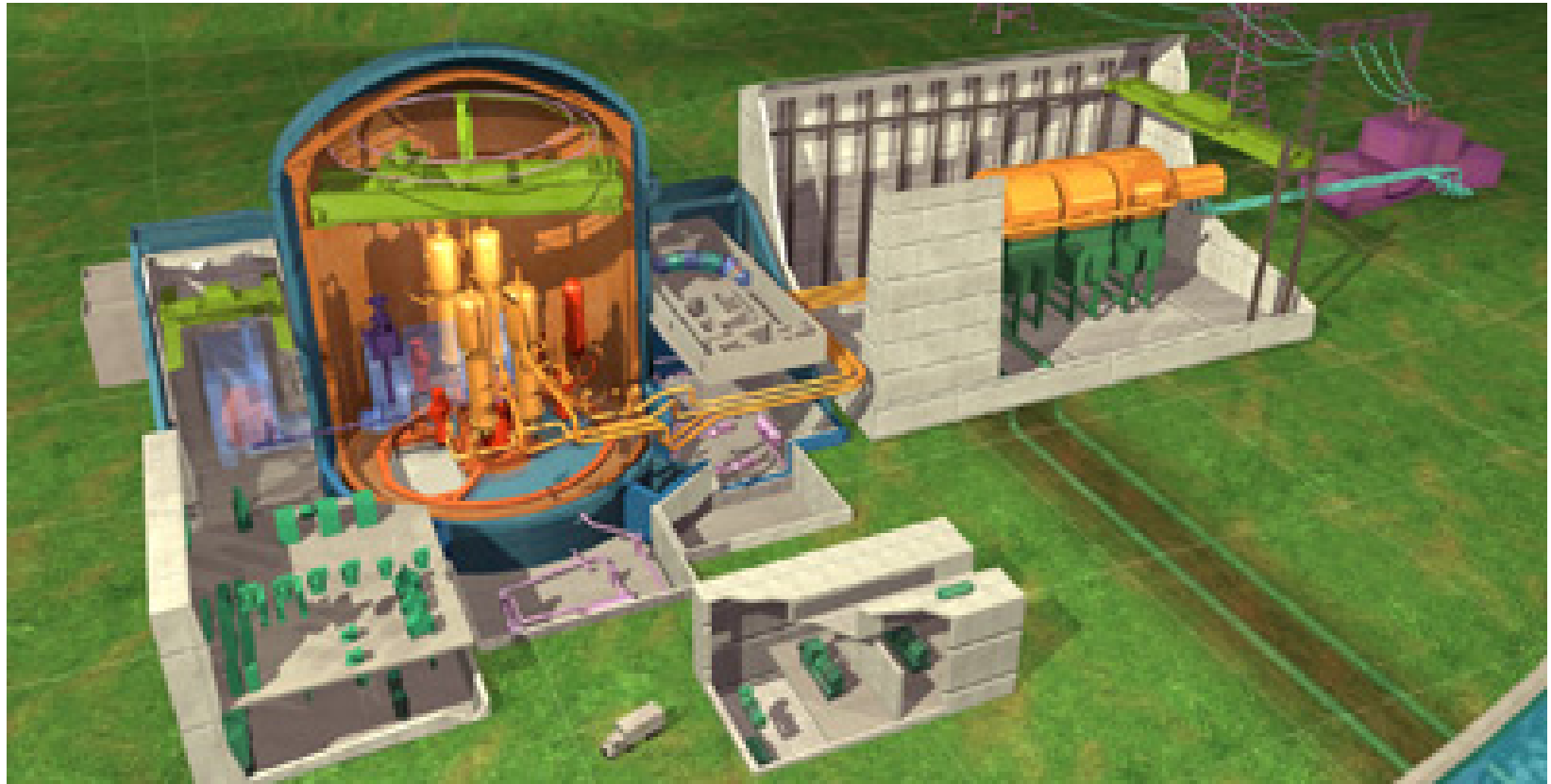
**Presented at SC-2 Meeting 09-02
And EQ Tech Comm Mtg
November 11, 2009, Sarasota, FL**



by **AREVA**

EPR is a trademark of the AREVA Group.

U.S. EPR General Layout



Announced Oct 8, 2008

- ▶ **An AREVA-Bechtel Power Corporation consortium has been awarded a multi-year contract from UniStar Nuclear Energy to complete detailed design engineering for a proposed AREVA U.S. EPR adjacent to CCNPP, in Lusby, MD. This effort is in preparation for construction of the U.S. EPR.**

Highlights of Recent U.S. EPR Activity

General

- ▶ **The U.S. EPR design application is currently under NRC review.**
 - ◆ **As of 9/25/09, we have a total of 3114 RAIs, and responded to 2691.**
 - ◆ **Phase 1 review of the application, i.e., preliminary SER and all RAIs issued, was completed on 1/28/09. Phase 2 review (i.e., development of the SER with open items) is currently in progress.**
 - ◆ **Schedule date for NRC approval of the design application is September 2011.**
 - ◆ **Key issues involve civil-structural, large break LOCA, fuel burnup (M5 growth issue), and resolution of GSI-191 related to sump strainer clogging.**
 - ◆ **Of the 15 submitted topical reports, 6 have been approved, one has recently been issued a draft SER, 4 are under active review, one (D3) has been converted to a technical report, two have been withdrawn (HFE and AV42), and one (PS) will be converted to a technical report.**

Highlights of Recent U.S. EPR Activity EQ Related

- ▶ **Total of 11 questions issued to address EQ, Section 3.11, questions, with the most notable being:**
 - ◆ **Use of latest IEEE Stds, vs. use of only those stds endorsed by RG. Based on discussions with NRC we have been told we must use the 1974 version of IEEE Std 323.**
 - ◆ **Qualification of mechanical equipment.**
 - ◆ **EQ of severe accident equipment. Revised FSAR to specifically state that severe accident equipment is not required to be environmentally qualified per 10 CFR 50.49**
 - ◆ **HF Seismic position to be provided by 10/31/09.**
 - ◆ **Program to address mechanical equipment qual and QME-1. NRC recently issued RG 1.100 Rev. 3 to endorse QME-1 2007, AREVA NP currently evaluating the impact.**

