



May 19, 2010
NRC:10:050

Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555-0001

U.S. EPR Design Certification Submittal of Revision 1 to Technical Report ANP-10293, "U.S. EPR™ Design Features to Address GSI-191"

Ref. 1: Letter, Sandra M. Sloan (AREVA NP Inc.) to Document Control Desk (NRC), "Application for Standard Design Certification of the U.S. EPR (Project No. 733)," NRC:07:070, December 11, 2007.

Ref. 2: Letter, Ronnie L. Gardner (AREVA NP Inc.) to Document Control Desk (NRC), "U.S. EPR Final Safety Analysis Report, Supplement 1," NRC:08:012, February 7, 2008.

On December 11, 2007, AREVA NP Inc. (AREVA NP) requested the NRC's review and approval of its application for design certification of the U.S. EPR (Reference 1). To support the application, AREVA NP provided technical report ANP-10293, Revision 0, "U.S. EPR™ Design Features to Address GSI-191" in Reference 2.

The revised technical report supports AREVA NP's responses to several NRC requests for additional information. Revision 1 to ANP-10293 is a complete revision to the technical report and documents a number of tests and evaluations that have been conducted since the original submittal of the original report. The additional testing and re-evaluation of ECCS sump strainer performance over the past two years have led to certain changes to the U.S. EPR design basis as described in the technical report.

Technical report ANP-10293 provides an assessment of the U.S. EPR design features that limit the impact of post-accident debris accumulation on ECCS performance, summarizes design basis evaluations, and compares the U.S. EPR design features to the regulatory positions of Regulatory Guide 1.82 and the information requested in Generic Letter 2004-02.

Technical report ANP-10293 is incorporated by reference into the Final Safety Analysis Report for the U.S. EPR.

Regular and frequent communications between AREVA NP and the NRC staff are essential to the timely resolution of outstanding technical issues. Past communications have proven to be beneficial in this regard. To that end, AREVA NP requests a public meeting to be held with the NRC staff in late June 2010 to obtain NRC feedback on ANP-10293, Revision 1 and any outstanding GSI-191 technical issues.

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An AREVA and Siemens company

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FORM 22709VA-1 (4/1/2008)

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A copy of technical report ANP-10293, Revision 1 is provided in the enclosed compact disc (CD). This report does not contain any information that AREVA NP considers to be proprietary.

If you have any questions related to this submittal, please contact me by telephone at 434-832-2369 or by e-mail to sandra.sloan@areva.com.

Sincerely,

A handwritten signature in black ink that reads "Sandra M. Sloan". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Sandra M. Sloan, Manager
New Plant Regulatory Affairs
AREVA NP Inc.

Enclosure

cc: G. Tesfaye
Docket No. 52-020