

September 29, 2014

MEMORANDUM TO: Edwin M. Hackett, Executive Director  
Advisory Committee on Reactor Safeguards

FROM: Frank Akstulewicz, Director **/RA Mark Delligatti for:/**  
Division of New Reactor Licensing  
Office of New Reactors

SUBJECT: U.S. EPR NUCLEAR PLANT, DESIGN CERTIFICATION APPLICATION  
PHASE 4 SAFETY EVALUATION FOR CHAPTER 10,  
"STEAM AND POWER CONVERSION SYSTEM"

By letter dated December 11, 2007, as supplemented by letters dated February 7, 2008, and February 20, 2008, AREVA, NP, Inc. (AREVA), submitted an application to the U.S. Nuclear Regulatory Commission (NRC) for a standard design certification of the U.S. EPR, pursuant to Title 10 of the *Code of Federal Regulations* (10 CFR) Part 52, "Licenses, Certifications, and Approvals for Nuclear Power Plants." Subsequent to the original application, AREVA submitted Revision 6 of the U.S. EPR Final Safety Analysis Report (FSAR) by letter dated April 3, 2014 (Agencywide Documents Access and Management System (ADAMS) at Accession No. ML14104A853). Revision 6 of the FSAR includes changes associated with responses to NRC Requests for Additional Information (RAIs) submitted through March 2014.

Based on our review of the application, the NRC staff is providing the Advisory Committee on Reactor Safeguards (ACRS) its Advanced Safety Evaluation (ASE), with no Open Items (OIs) for Chapter 10, "Steam and Power Conversion System," Agencywide Documents Access and Management System (ADAMS) Accession No. ML101100524. Unless otherwise stated in the ASE, the NRC staff's review was based on Revision 6 of the application and AREVA's responses to RAIs. The ASE is being provided to support a meeting of the subcommittee of the ACRS. The meeting date has yet to be determined. Issuance of this ASE is an important milestone in the NRC staff's review to determine whether AREVA's application meets the Commission's regulations.

In accordance with the memorandum to the ACRS dated March 17, 2010 (ADAMS Accession No. ML100700612), the NRC staff has reviewed the submitted information against the categories for which the ACRS requested to highlight information for review by the Committee. The NRC staff's assessment of Chapter 10 did not identify any highlighted information for review by the Committee.

The NRC staff concludes that the ASE does not contain information exempted from public disclosure. However, the NRC will withhold the ASE from public disclosure for ten business days to allow AREVA the opportunity to verify the NRC staff's conclusion that the ASE contains no such exempt information. Therefore, the NRC staff requests that the ACRS withhold the ASE from public disclosure until the information has been released to the public in ADAMS.

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The NRC staff will inform the ACRS immediately if AREVA requests that any of the information in the ASE be withheld from the public.

Should you have any questions, please contact Mr. Peter Hearn, Senior Project Manager at (301) 415-1189, [Peter.Hearn@nrc.gov](mailto:Peter.Hearn@nrc.gov) or Mr. George Wunder, the Lead Project Manager, for the U.S. EPR design certification application at (301) 415-1494, [George.Wunder@nrc.gov](mailto:George.Wunder@nrc.gov).

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**ADAMS Accession Numbers:**

**PKG: ML14091A392**  
**MEMO: ML14224A159**  
**SER: ML101100524**

**Concurrence page: ML14122A111**

**NRO-002**

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