

June 29, 2011

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

FROM: David B. Matthews, Director */RA Frank Akstulewicz for/*
Division of New Reactor Licensing
Office of New Reactors

SUBJECT: U.S. EPR DESIGN CERTIFICATION APPLICATION - SAFETY
EVALUATION WITH OPEN ITEMS FOR PORTIONS OF
CHAPTER 15, "TRANSIENT AND ACCIDENT ANALYSES"

By letter dated December 11, 2007, AREVA NP Inc. (AREVA), submitted an application to the U.S. Nuclear Regulatory Commission (NRC) for a standard design certification (DC) application for the U.S. EPR.

Based on our review of the application, the staff is providing the Advisory Committee on Reactor Safeguards (ACRS) its Safety Evaluation (SE), with Open Items for portions of Chapter 15, "Transient and Accident Analyses" (ML101400189). Unless otherwise stated in the SE, the staff's review was based on Revision 2 of the application. The SE is being provided to support a meeting of the subcommittee of the ACRS. The ACRS full committee meeting will be held after the subcommittee meeting.

In a letter dated January 6, 2011, NRC staff informed AREVA that Phase 2 and 3 milestones for the GSI-191 review area would be eliminated, and that the staff would assume that GSI-191 issues will be resolved before the completion of the established Phase 4 milestone. Accordingly, the SE does not contain an evaluation of in-vessel downstream effects in Section 15.6.5.3.4.4, "In-vessel Downstream Effects of Containment Debris."

In accordance with the memorandum to the ACRS dated March 17, 2010 (ML100700612), the staff has reviewed the submitted information against the categories for which the ACRS requested be used to highlight information for review by the committee. The staff's assessment of this chapter identified the following subject(s) for discussion with the Committee.

- Information contained in Section 15.6.5, "Loss of Coolant Accidents Resulting from Spectrum of Postulated Piping Breaks within the Reactor Coolant Pressure Boundary."

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

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

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