

June 29, 2011

Mrs. Sandra M. Sloan  
Manager of Regulatory Affairs  
New Plants Deployment  
AREVA NP, Inc.  
3315 Old Forest Road  
Lynchburg, VA 24506-0935

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

Dear Mrs. Sloan:

The U.S. Nuclear Regulatory Commission (NRC) staff is preparing a safety evaluation (SE) with open items (OIs) for each chapter of the U.S. EPR standard design certification (DC) submitted by AREVA NP, Inc. (AREVA) on December 11, 2007.

The staff's SE with OIs for portions of Chapter 15, "Transient and Accident Analyses," is being provided to the Advisory Committee on Reactor Safeguards (ACRS) subcommittee to support upcoming meetings of the ACRS subcommittee. The enclosed safety evaluation contains Section 15.6.5, "Loss of Coolant Accidents Resulting from Spectrum of Postulated Piping Breaks within the Reactor Coolant Pressure Boundary." 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 enclosed 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."

The enclosed SE with OIs is being provided only to AREVA for review of proprietary information pursuant to Title 10 of the *Code of Federal Regulations* (10 CFR) 2.390 "Public Inspections, Exemptions, Requests for Withholding." The staff concludes that the enclosed SE does not contain any information for which exemption from public disclosure has been sought or approved or any factual errors. However, the NRC will withhold the enclosed SE from public disclosure for ten working days from the date of this letter to allow you the opportunity to verify the staff's conclusion that the SE contains no such exempt information or any factual errors. If within that ten day period, you do not request that all or portions of the SE be withheld from public disclosure, the enclosure will be made available for public inspection through the NRC Public Document Room and the Publicly Available Records component of the NRC Agencywide Documents Access and Management System (ADAMS) and placed on the NRC public web page for this application.

Document transmitted herewith contains sensitive unclassified information. When separated from the enclosure, this document is "DECONTROLLED."
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S. Sloan

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If you have any questions or comments concerning this matter, I can be reached at 301-415-3361 or via e-mail address at [getachew.tesfaye@nrc.gov](mailto:getachew.tesfaye@nrc.gov).

Sincerely,

**/RA/**

Getachew Tesfaye, Lead Project Manager  
EPR Projects Branch  
Division of New Reactor Licensing  
Office of New Reactors

Docket No. 52-020

Enclosure:  
As stated

cc: w/o encl. see next page

S. Sloan

- 2 -

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Sincerely,

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Getachew Tesfaye, Lead Project Manager  
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Division of New Reactor Licensing  
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Enclosure:  
As stated

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NRO-002

<b>OFFICE</b>	DNRL/NARP:PM	DNRL/NARP:LA	DNRL/NARP:PM (Lead)
<b>NAME</b>	JCarneal (GTesfaye for)	JMcLellan	GTesfaye
<b>DATE</b>	06/29/11	06/27/11	06/29/11

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(Revised 05/19/2011)

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