

February 1, 2017

Mr. Gary Peters, Director  
Licensing and Regulatory Affairs  
AREVA Inc.  
3315 Old Forest Road  
Lynchburg, VA 24501

SUBJECT: REVISED FINAL SAFETY EVALUATION BY THE OFFICE OF NUCLEAR  
REACTOR REGULATION FOR TOPICAL REPORT EMF-2328(P)(A),  
REVISION 0, SUPPLEMENT 1, REVISION 0, "PWR SMALL BREAK LOCA  
EVALUATION MODEL, S-RELAP5 BASED" CAC NO. MF7268

Dear Mr. Peters:

By letter dated March 2, 2012 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML12065A390), AREVA NP Inc. (AREVA) submitted Topical Report (TR) EMF-2328(P)(A), Revision 0, Supplement 1, Revision 0, "PWR [pressurized water reactor] Small Break LOCA [loss-of-coolant accident] Evaluation Model, S-RELAP5 Based," to the U.S. Nuclear Regulatory Commission (NRC) for review and approval. By letter dated April 22, 2015 (ADAMS Accession No. ML15071A351), an NRC draft safety evaluation (SE) regarding our approval of EMF-2328(P)(A), Revision 0, Supplement 1, Revision 0, was provided for your review and comment. By letter dated May 11, 2015 (ADAMS Accession No. ML15160A617), AREVA provided comments on the draft SE. The NRC staff's disposition of the AREVA comments on the draft SE are discussed in the Attachment 1 to the final SE enclosed with this letter.

By letter dated September 1, 2015 (ADAMS Accession No. ML15210A252) the NRC indicated to AREVA that it found TR EMF-2328(P)(A), Revision 0, Supplement 1, Revision 0, acceptable for referencing in licensing applications for nuclear power plants to the extent specified and under the limitations delineated in the TR and in the original final SE. AREVA was requested to AREVA publish approved proprietary and non-proprietary versions of TR EMF-2328(P)(A), Revision 0, Supplement 1, Revision 0. During the verification review of the approved version, the NRC staff identified an omission from the original final SE, which was thus not incorporated into the TR. This omission is rectified in Attachment 2 to the final SE enclosed with this letter. This final SE supersedes the original final SE issued on September 1, 2015.

Our acceptance applies only to material provided in the subject TR. We do not intend to repeat our review of the acceptable material described in the TR. When the TR appears as a reference in licensing action requests, our review will ensure that the material presented applies to the specific plant involved. Requests for licensing actions that deviate from this TR will be subject to a plant-specific review in accordance with applicable review standards.

In accordance with the guidance provided on the NRC website, we request that AREVA publish approved proprietary and non-proprietary versions of TR EMF-2328(P)(A), Revision 0, Supplement 1, Revision 0, within 3 months of receipt of this letter. The approved versions shall incorporate this letter and the enclosed final SE after the title page. Also, they must contain historical review information, including NRC requests for additional information (RAI) and your responses. The approved versions shall include an "-A" (designating approved) following the TR identification symbol.

As an alternative to including the RAIs and RAI responses behind the title page, if changes to the TR were provided to the NRC staff to support the resolution of RAI responses, and if the NRC staff reviewed and approved those changes as described in the RAI responses, there are two ways that the accepted version can capture the RAIs:

1. The RAIs and RAI responses can be included as an Appendix to the accepted version.
2. The RAIs and RAI responses can be captured in the form of a table (inserted after the final SE) which summarizes the changes as shown in the approved version of the TR. The table should reference the specific RAIs and RAI responses which resulted in any changes, as shown in the accepted version of the TR.

If future changes to the NRC's regulatory requirements affect the acceptability of this TR, AREVA will be expected to revise the TR appropriately or justify its continued applicability for subsequent referencing. Licensees referencing this TR would be expected to justify its continued applicability or evaluate their plant using the revised TR.

Sincerely,

**/RA/**

Kevin Hsueh, Chief  
Licensing Processes Branch  
Division of Policy and Rulemaking  
Office of Nuclear Reactor Regulation

Project No. 728

Enclosure:  
Final Safety Evaluation (Non-Proprietary)

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 EVALUATION MODEL, S-RELAP5 BASED" CAC NO. MF7268  
 DATE: February 2, 2017

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ADAMS Accession Nos.: Pkg: ML16356A396; Ltr: ML16356A399; SE: ML16356A406;

Attachment 1: ML16356A413; Attachment 2: ML16356A418; \*concurred via email

**NRR-106**

OFFICE	NRR/DPR/PLPB	NRR/DPR/PLPB*	NRR/SNPB	NRR/DPR/PLPB
NAME	JRowley	DHarrison	RLukes	KHsueh
DATE	12/21/16	1/26/17	12/1/16	2/1/17

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