

September 23, 2009

Mr. Ronnie L. Gardner, Manager  
Site Operations and Regulatory Affairs  
AREVA NP Inc.  
3315 Old Forest Road  
Lynchburg, VA 24501

SUBJECT: FINAL SAFETY EVALUATION FOR AREVA NP, INC. (AREVA) TOPICAL REPORTS (TR) EMF-2209(P), REVISION 2, ADDENDUM 1, "SPCB ADDITIVE CONSTANTS FOR ATRIUM-10 FUEL" AND ANP-10249 (P), REVISION 0, SUPPLEMENT 1, "ACE ADDITIVE CONSTANTS FOR ATRIUM-10 FUEL" (TAC NOS. MD8754 AND ME0162)

Dear Mr. Gardner:

By letters dated May 1, 2008, and July 31, 2008, AREVA submitted TRs EMF-2209(P), Addendum 1, "SPCB [Siemens Power Corporation B] Additive Constants for the ATRIUM-10 Fuel," and ANP-10249(P), Revision 0, Supplement 1, "ACE Additive Constants for ATRIUM-10 Fuel," to the U.S. Nuclear Regulatory Commission (NRC) staff for review. By letter dated July 6, 2009, an NRC draft safety evaluation (SE) regarding our approval of TRs EMF-2209(P), Addendum 1, and ANP-10249(P), Revision 0, Supplement 1, was provided for your review and comments. By letter dated July 24, 2009, AREVA commented on the draft SE. The NRC staff's disposition of AREVA comments on the draft SE are discussed in the attachment to the final SE enclosed with this letter.

The NRC staff has found that TRs EMF-2209(P), Addendum 1, and ANP-10249(P), Revision 0, Supplement 1, are acceptable for referencing in licensing applications for boiling water reactors to the extent specified in the TRs and enclosed final SE. The final SE defines the basis for acceptance of the TRs.

Our acceptance applies only to material provided in the subject TRs. We do not intend to repeat our review of the acceptable material described in the TRs. When the TRs appears as references in license applications, our review will ensure that the material presented applies to the specific plant involved. License amendment requests that deviate from the TRs 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 accepted proprietary and non-proprietary versions of the TRs within three months of receipt of this letter. The accepted 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 and your responses. The accepted versions shall include a "-A" (designating accepted) following the TR identification symbol.

R. Gardner

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If future changes to the NRC's regulatory requirements affect the acceptability of these TRs, AREVA and/or licensees referencing them will be expected to revise the TRs appropriately, or justify their continued applicability for subsequent referencing.

Sincerely,

*/RA/*

Thomas B. Blount, Deputy Director  
Division of Policy and Rulemaking  
Office of Nuclear Reactor Regulation

Project No. 728

Enclosure 1: Non-Proprietary Final SE

Enclosure 2: Proprietary Final SE

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R. Gardner

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Thomas B. Blount, Deputy Director  
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**\*No major changes to SE input. NRR-043**

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