

March 4, 2013

Mr. Pedro Salas, Manager
Site Operations and Regulatory Affairs
AREVA NP Inc.
3315 Old Forest Road
Lynchburg, VA 24501

SUBJECT: FINAL SAFETY EVALUATION FOR AREVA NP, INC. TOPICAL REPORT
EMF-3028 (P), "RAMONA5-FA: A COMPUTER PROGRAM FOR BWR
TRANSIENT ANALYSIS IN THE TIME DOMAIN," VOLUME 1, REVISION 2,
"USERS MANUAL" AND VOLUME 2, "THEORY MANUAL" (TAC NO. MD8812)

Dear Mr. Salas:

By letter dated May 30, 2008 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML081550654) AREVA NP Inc. (AREVA NP) submitted Topical Report (TR) EMF-3028(P), "RAMONA5-FA: A Computer Program for BWR Transient Analysis in the Time Domain," Volume 1, Revision 2, "Users Manual," dated March 2006, and Volume 2, Revision 2, "Theory Manual," dated April 2006 to the U.S. Nuclear Regulatory Commission (NRC) staff for review. By letter dated March 8, 2010, an NRC draft safety evaluation (SE) regarding our approval of TR EMF-3028(P) was provided for your review and comment (ADAMS Accession No. ML091470442). By letter dated March 22, 2010 (ADAMS Accession No. ML100830370), AREVA NP commented on the draft SE. The NRC staff's disposition of the AREVA NP comments on the draft SE are discussed in the attachment to the final SE enclosed with this letter. By letter dated January 25, 2011 (ADAMS Accession No. ML110270114), AREVA NP submitted TR EMF-3028(P), Volume 2, Revision 4, "Theory Manual," for NRC review as a result of a January 14, 2011, Advisory Committee on Reactor Safeguards meeting.

The NRC staff has found that TR EMF-3028(P), Volume 2, Revision 4, "Theory Manual," is 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 enclosed final SE. The final SE defines the basis for our acceptance of the TR.

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 license applications, our review will ensure that the material presented applies to the specific plant involved. License amendment requests that deviate from this TR will be subject to a plant-specific review in accordance with applicable review standards.

NOTICE: Enclosure 2 transmitted herewith contains Proprietary Information. When separated from Enclosure 2, this transmittal document is decontrolled.

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P. Salas

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In accordance with the guidance provided on the NRC website, we request that AREVA NP publish approved proprietary and non-proprietary versions of TR EMF-3028(P), Volume 2, Revision 4, "Theory Manual," within three 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 and your responses. The approved versions shall include an "-A" (designating approved) following the TR identification symbol.

If future changes to the NRC's regulatory requirements affect the acceptability of this TR, AREVA and/or licensees referencing it will be expected to revise the TR appropriately, or justify its continued applicability for subsequent referencing.

Sincerely,

/RA/

Sher Bahadur, Deputy Director
Division of Policy and Rulemaking
Office of Nuclear Reactor Regulation

Project No. 728

Enclosures:

1. Safety Evaluation (Non-Proprietary)
2. Safety Evaluation (Proprietary)

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Sher Bahadur, Deputy Director
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**ADAMS Accession Nos.: ML12318A207 (Cover letter); ML12318A214 (Prop SE);
ML12318A220 (Non-Prop SE); ML12318A222 (Attachment); ML12318A206 (Package) NRR-106**

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