

February 13, 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  
ANP-10297P, REVISION 0, "THE ARCADIA® REACTOR ANALYSIS SYSTEM  
FOR PWRs METHODOLOGY DESCRIPTION AND BENCHMARKING  
RESULTS" (TAC NO. ME3911)

Dear Mr. Salas:

By letter dated March 31, 2010 (Agencywide Documents Access and Management System Accession No. ML100950584), AREVA NP, Inc. (AREVA) submitted for U.S. Nuclear Regulatory Commission (NRC) staff review Topical Report (TR) ANP-10297P, Revision 0, "The ARCADIA® Reactor Analysis System for PWRs [Pressurized Water Reactors] Methodology Description and Benchmark Results." By letter dated December 7, 2010, an NRC draft safety evaluation (SE) regarding our approval of TR ANP-10297P, Revision 0, was provided for your review and comment (ADAMS Accession No. ML12191A403). By letter dated December 20, 2012 (ADAMS Accession No. ML12361A008), AREVA indicated that there were no comments on the draft SE.

The NRC staff has found that TR ANP-10297P, Revision 0, 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 publish approved proprietary and non-proprietary versions of this TR 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: Final SE (Non-Proprietary)
- 2: Final SE (Proprietary)

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**ADAMS Accession Nos.: ML12352A389 (Cover Letter); ML12352A394 (Non-Prop SE); ML12352A401 (Prop SE); ML12352A383 (Package)**

**NRR-043**

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