



January 25, 2011
NRC:11:006

Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555-0001

AREVA NP Inc. Supporting Materials for ACRS Meeting Held on January 14, 2011

Ref. 1: Letter, Ronnie L. Gardner (AREVA NP Inc.) to Document Control Desk (NRC), "Request for Review and Approval of 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, Volume 2, Revision 2, 'Theory Manual,' dated April 2006, and RAMONA5, Version 2.4.", NRC:08:035, May 30, 2008.

Ref. 2: Letter, Stacey L. Rosenberg (NRC) to Ronnie L. Gardner (AREVA NP Inc.), "Draft 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," Dated March 2006, "Theory Manual," Volume 2, Revision 2, Dated April 2006, and RAMONA5, Version 2.4 (TAC NO.MD8812)," March 8, 2010.

Ref. 3: Letter, Ronnie L. Gardner (AREVA NP Inc.) to Document Control Desk (NRC), "Response to Request for Comment on Draft SER for EMF-3028(P), Volumes 1 and 2, Revision 2, and RAMONA5 Version 2.4," NRC:10:022, dated March 22, 2010.

Per request of NRC Staff, the RAMONA5-FA computer code verification document 51-9152672-000, "Formal Review of RAMONA5-FA Coding with Respect to Revision 4 of EMF-3028 Volume 2," January 2011 is enclosed. This document is provided in response to discussion during the ACRS meeting on January 14, 2011. Additionally, Attachment A provides supplemental information about the verification document.

AREVA NP Inc. (AREVA NP) submitted the RAMONA5-FA code for detailed review in Reference 1. The review of the RAMONA5-FA code was requested to remove Safety Evaluation (SE) restrictions from approved Topical Report BAW-10255PA Revision 2, "Cycle-Specific DIVOM Methodology Using the RAMONA5-FA Code," dated May 2008. A DRAFT SE was subsequently transmitted to AREVA NP in Reference 2. It is AREVA NP's understanding that this transmittal should provide the final information required for final release of this SE. As noted in Reference 3, AREVA NP requests that the final SE be issued on BAW-10255PA Revision 2 so that it may be added to the topical report and issued as Revision 3 of BAW-10255PA.

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The SE restrictions 2 and 3 that are eliminated by the subject review imposed a 10% penalty associated with EFW domains as follows:

2. *The NRC staff imposes a condition to perform a full code review of RAMONA5-FA, including constitutive relations, numerics, neutronic methods, and benchmarks before RAMONA5-FA can be used to calculate DIVOM curves in EFW operating domains without the 10 percent penalty on DIVOM slopes, as noted in Limitation and Condition No.3 below.*

3. *The NRC staff imposes an interim 10 percent penalty on DIVOM slopes calculated using the RAMONA5-FA methodology under EFW conditions. This is an interim restriction that will be revised when the full RAMONA5-FA Code review is completed.*

The enclosure and attachment are being transmitted for information only and are not being submitted for review. AREVA NP considers the enclosed document and Attachment A to be proprietary in their entirety. Therefore nonproprietary versions of the enclosure and attachment are not provided.

AREVA NP considers the material contained in the enclosed documents to be proprietary. As required by 10 CFR 2.390(b), an affidavit is enclosed to support the withholding of the information from public disclosure.

If you have any questions related to this submittal, please contact Mr. Alan B. Meginnis, Product Licensing Manager at 509-375-8266 or by e-mail at alan.meginnis@areva.com

Sincerely,



Pedro Salas, Manager
Corporate Regulatory Affairs
AREVA NP Inc.

Enclosure

cc: H. D. Cruz
Project 728

is requested qualifies under 10 CFR 2.390(a)(4) "Trade secrets and commercial or financial information."

6. The following criteria are customarily applied by AREVA NP to determine whether information should be classified as proprietary:

- (a) The information reveals details of AREVA NP's research and development plans and programs or their results.
- (b) Use of the information by a competitor would permit the competitor to significantly reduce its expenditures, in time or resources, to design, produce, or market a similar product or service.
- (c) The information includes test data or analytical techniques concerning a process, methodology, or component, the application of which results in a competitive advantage for AREVA NP.
- (d) The information reveals certain distinguishing aspects of a process, methodology, or component, the exclusive use of which provides a competitive advantage for AREVA NP in product optimization or marketability.
- (e) The information is vital to a competitive advantage held by AREVA NP, would be helpful to competitors to AREVA NP, and would likely cause substantial harm to the competitive position of AREVA NP.

The information in these Documents is considered proprietary for the reasons set forth in paragraphs 6(b), 6(d) and 6(e) above.

7. In accordance with AREVA NP's policies governing the protection and control of information, proprietary information contained in these Documents have been made available, on a limited basis, to others outside AREVA NP only as required and under suitable agreement providing for nondisclosure and limited use of the information.

8. AREVA NP policy requires that proprietary information be kept in a secured file or area and distributed on a need-to-know basis.

