



June 23, 2016  
NRC:16:017

U.S. Nuclear Regulatory Commission  
Document Control Desk  
11555 Rockville Pike  
Rockville, MD 20852

**Response to a Request for Additional Information Regarding Topical Report ANP-10300P, Revision 0, "AURORA-B: An Evaluation Model for Boiling Water Reactors; Application to Transient Accident Scenarios"**

AREVA Inc. (AREVA) requested the NRC review and approve Topical Report (TR) ANP-10300P, Revision 0, "AURORA-B: An Evaluation Model for Boiling Water Reactors; Application to Transient Accident Scenarios" in Reference 1. A response to acceptance review questions regarding this TR was transmitted to the NRC in Reference 2. The NRC provided a Request for Additional Information (RAI) regarding this TR in Reference 3. The responses to the Reference 3 RAI are included in this letter as Enclosure 2 (ANP-10300Q2P, Revision 0).

As identified in Reference 2, when the final approved TR is assembled, the Appendix A of ANP-10300Q1P, Revision 0 (Reference 4) will be moved from the NRC correspondence section at the beginning of the TR and placed in the base TR as Appendix.A to ANP-10300PA. Additionally, there are a number of TR updates identified in Attachment B to Reference 2 and in the response to RAI 1b and 49b of Enclosure 2 to this letter that will be updated in the base TR. To facilitate the updating of the TR, AREVA will revise the TR to Revision 1 of ANP-10300P so that the Approved TR will be ANP-10300PA, Revision 1. AREVA requests that the NRC acknowledges this in the SE for this TR.

Additionally, a reference error in the Acceptance Review Question response document ANP-10300Q1P (Reference 4) was identified and will result in the following update:

Reference A.11 is changed from:

**A.11** XN-NF-85-67(P)(A) Revision 1, Generic Mechanical Design for Exxon Nuclear Jet Pump BWR Reload Fuel, Exxon Nuclear Company, September 1986.

to

**A.11** ANF-89-98(P)(A) Revision 1 and Supplement 1, Generic Mechanical Design Criteria for BWR Fuel Designs, Advanced Nuclear Fuels Corporation, May 1995.

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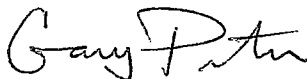
**AREVA INC.**

This error was the result of inadvertently referencing an older document rather than the most current Generic Mechanical Design Criteria TR and correcting it does not impact the validity of conclusions in the report. This reference error will be corrected in ANP-10300PA, Revision 1 when Appendix A of ANP-10300Q1P Revision 0 is incorporated.

AREVA considers some of the material contained in the enclosures to be proprietary. As required by 10 CFR 2.390(b), an affidavit is attached to support the withholding of the information from public disclosure. Proprietary and non-proprietary versions of the attached RAI responses are provided.

If you have any questions related to this information, please contact Mr. Alan B. Meginnis by telephone at (509) 375-8266, or by e-mail at [Alan.Meginnis@areva.com](mailto:Alan.Meginnis@areva.com).

Sincerely,



Gary Peters, Director  
Licensing & Regulatory Affairs  
AREVA Inc.

cc: J. G. Rowley  
Project 728

References:

- Ref. 1: Letter, R.L. Gardner (AREVA) to Document Control Desk (NRC), "Request for Review and Approval of ANP-10300P, Revision 0, 'AURORA-B: An Evaluation Model for Boiling Water Reactors; Application to Transient Accident Scenarios'," NRC:09:134, December 23, 2009.
- Ref. 2: Letter, P. Salas (AREVA) to Document Control Desk (NRC), "Response to a Draft Request for Additional Information Regarding ANP-10300P, Revision 0, 'AURORA-B: An Evaluation Model for Boiling Water Reactors; Application to Transient Accident Scenarios'," NRC:11:081, August 3, 2011.
- Ref. 3: Letter, Jonathan Rowley (NRC) to Pedro Salas (AREVA), "Request for Additional Information RE: AREVA NP, Inc. Topical Report BAW-10300P, Revision 0, 'AURORA-B: An Evaluation Model for Boiling Water Reactors; Application to Transient Accident Scenarios' (TAC NO. ME2979)," February 25, 2015.
- Ref. 4: ANP-10300Q1P, Revision 0, "AURORA-B: An Evaluation Model for Boiling Water Reactors; Application to Transient and Accident Scenarios Responses to NRC Acceptance Review Questions," AREVA NP Inc., July 2011.

Enclosures:

1. Affidavit for Withholding of Proprietary Information.
2. A Proprietary copy of the Report ANP-10300Q2P, Revision 0, "AURORA-B: An Evaluation Model for Boiling Water Reactors; Application to Transient and Accident Scenarios Response to NRC Request for Additional Information"
3. A Non-Proprietary copy of the Report ANP-10300Q2NP, Revision 0, "AURORA-B: An Evaluation Model for Boiling Water Reactors; Application to Transient and Accident Scenarios Response to NRC Request for Additional Information"

A F F I D A V I T

STATE OF WASHINGTON )  
  ) ss.  
COUNTY OF BENTON                        )

1. My name is Alan B. Meginnis. I am Manager, Product Licensing, for AREVA Inc. and as such I am authorized to execute this Affidavit.

2. I am familiar with the criteria applied by AREVA to determine whether certain AREVA information is proprietary. I am familiar with the policies established by AREVA to ensure the proper application of these criteria.

3. I am familiar with the AREVA information contained in the report ANP-10300Q2P, Revision 0, "AURORA-B: An Evaluation Model for Boiling Water Reactors; Application to Transient and Accident Scenarios Response to NRC Request for Additional Information," dated June 2016 and referred to herein as "Document." Information contained in this Document has been classified by AREVA as proprietary in accordance with the policies established by AREVA for the control and protection of proprietary and confidential information.

4. This Document contains information of a proprietary and confidential nature and is of the type customarily held in confidence by AREVA and not made available to the public. Based on my experience, I am aware that other companies regard information of the kind contained in this Document as proprietary and confidential.

5. This Document has been made available to the U.S. Nuclear Regulatory Commission in confidence with the request that the information contained in this Document be withheld from public disclosure. The request for withholding of proprietary information is made in accordance with 10 CFR 2.390. The information for which withholding from disclosure 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 to determine whether information should be classified as proprietary:

- (a) The information reveals details of AREVA'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.
- (d) The information reveals certain distinguishing aspects of a process, methodology, or component, the exclusive use of which provides a competitive advantage for AREVA in product optimization or marketability.
- (e) The information is vital to a competitive advantage held by AREVA, would be helpful to competitors to AREVA, and would likely cause substantial harm to the competitive position of AREVA.

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

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

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

9. The foregoing statements are true and correct to the best of my knowledge, information, and belief.

Alan B. Mezzini

SUBSCRIBED before me this 17<sup>th</sup>  
day of June 2016.

Susan K McCoy

Susan K. McCoy  
NOTARY PUBLIC, STATE OF WASHINGTON  
MY COMMISSION EXPIRES: 1/14/2020

SUSAN K MCCOY  
NOTARY PUBLIC - WASHINGTON  
MY COMMISSION EXPIRES 01-14-2020