



November 15, 2010
NRC:10:105

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

Request for Review and Approval of EMF-2103(P) Revision 2, "Realistic Large Break LOCA Methodology for Pressurized Water Reactors"

AREVA NP Inc. (AREVA) requests the NRC's review and approval of EMF-2103(P), Revision 2, "Realistic Large Break LOCA Methodology for Pressurized Water Reactors." This revision consists of improvements in the methodology such as alteration of the high void fraction heat transfer regime, addition of a rod-to-rod radiation model, improvement of the cold leg condensation model, application of the Tukey statistical methodology, and inclusion of the COPERNIC2 advanced fuel performance code.

This report is being submitted for NRC approval for application to current operating plants. AREVA requests the NRC approve the enclosed topical report by December 15, 2011 to support commercial reloads.

A proprietary and non-proprietary version of this report is provided on the enclosed CDs.

AREVA considers some of 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.

In support of the Office of Nuclear Reactor Regulation's prioritization efforts, the prioritization scheme matrix was completed and is attached for your use.

If you have any questions related to this submittal, please contact Ms. Gayle F. Elliott, Product Licensing Manager. She may be reached by telephone at 434-832-3347 or by e-mail at gayle.elliott@areva.com.

Sincerely,

A handwritten signature in black ink, appearing to read 'Ronnie L. Gardner', is written over the typed name.

Ronnie L. Gardner, Manager
Corporate Regulatory Affairs

Enclosures

cc: H. Cruz
Project 728

Handwritten note: 4/601
NRC

AREVA NP INC.
An AREVA and Siemens company

3315 Old Forest Road, P.O. Box 10935, Lynchburg, VA 24506-0935
Tel.: (434) 832-3000 - Fax: (434) 832-3840

FORM 22709VA-1 (4/1/2006)

EMF-2103(P), Revision 2 Realistic Large Break LOCA Methodology for Pressurized Water Reactors

TR Prioritization Scheme Matrix			
*Industry input on shaded areas was not requested.			
Factors	Select the Criteria that the TR Satisfies	Points Assigned for Each Criteria	Total Points (if points are cumulative, total them for each factor in this column)
TR Classification (Points are cumulative)	Generic Safety Issue	6	1
	Emergent Technical Issue	3	
	Standard TR	1	
Applicability (Points are not cumulative)	Industry-Wide Implementation	3	2
	Applicable to entire groups of licensees (BWROG, PWROG, BWRVIP, etc.)	2	
	Applicable only to partial groups of licensees	1	
Specialized Resource Availability (Points are cumulative)	NRC staff expertise is readily available (The NRC staff will evaluate this criteria)	1.5	0.5
	Technical data is available/readily accessible (The NRC staff will evaluate this criteria)	1	
	TR approval is needed by a certain date to support a licensing activity. Explain when and why.	0.5	
Total Points (Add the total points from each factor and total here):			3.5

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 the Document is considered proprietary for the reasons set forth in paragraphs 6(b) and 6(c) above.

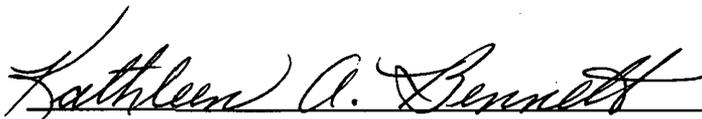
7. In accordance with AREVA NP's policies governing the protection and control of information, proprietary information contained in this Document have been made available, on a limited basis, to others outside AREVA NP only as required and under suitable agreement providing for nondisclosure and limited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

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

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SUBSCRIBED before me this 15th
day of November, 2010.

A handwritten signature in black ink, reading 'Kathleen A. Bennett', written over a horizontal line.

Kathleen Ann Bennett
NOTARY PUBLIC, COMMONWEALTH OF VIRGINIA
MY COMMISSION EXPIRES: 8/31/11
Reg. # 110864

