

June 17, 2016

Mr. Gary Peters, Director  
Licensing and Regulatory Affairs  
AREVA Inc.  
3315 Old Forest Road  
Lynchburg, VA 24501

SUBJECT: FINAL SAFETY EVALUATION FOR AREVA NP INC TOPICAL REPORT  
EMF-2103(P), REVISION 3, "REALISTIC LARGE BREAK LOCA  
METHODOLOGY FOR PRESSURIZED WATER REACTORS" (TAC NO.  
MF2904)

Dear Mr. Peters:

By letter dated September 13, 2013 (Agencywide Documents Access and Management System Accession No. ML13283A220), AREVA NP Inc. (AREVA) submitted Topical Report (TR) EMF-2103(P), Revision 3, "Realistic Large Break LOCA [Loss-of-Coolant Accident] Methodology for Pressurized Water Reactors," to the U.S. Nuclear Regulatory Commission (NRC) staff for review and approval. By letter dated April 14, 2016 (ADAMS Accession No. ML16098A366), an NRC draft safety evaluation (SE) regarding our approval of EMF-2103(P), Revision 3, was provided for your review and comment. By letter dated April 28, 2016 (ADAMS Accession No. ML16123A378), AREVA provided comments on the draft SE. The NRC staff's disposition of the AREVA comments on the draft SE are discussed in the attachment to the final SE enclosed with this letter.

The NRC staff has found that TR EMF-2103(P), Revision 3, 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 transmitted herewith contains Proprietary Information. When separated from the Enclosure, this transmittal document is decontrolled.
---

~~OFFICIAL USE ONLY PROPRIETARY INFORMATION~~

G. Peters

- 2 -

In accordance with the guidance provided on the NRC website, we request that AREVA publish approved proprietary and non-proprietary versions of TR EMF-2103(P), Revision 3, 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 (RAIs) and your responses. The approved versions shall include an "-A" (designating approved) following the TR identification symbol.

As an alternative to including the RAIs and RAI responses behind the title page, if changes to the TRs provided to the NRC staff to support the resolution of RAI responses, and the NRC staff reviewed and approved those changes as described in the RAI responses, there are two ways that the accepted version can capture the RAIs:

1. The RAIs and RAI responses can be included as an Appendix to the accepted version.
2. The RAIs and RAI responses can be captured in the form of a table (inserted after the final SE) which summarizes the changes as shown in the approved version of the TR. The table should reference the specific RAIs and RAI responses which resulted in any changes, as shown in the accepted version of the TR.

If future changes to the NRC's regulatory requirements affect the acceptability of this TR, AREVA will be expected to revise the TR appropriately or justify its continued applicability for subsequent referencing. Licensees referencing this TR would be expected to justify its continued applicability or evaluate their plant using the revised TR.

Sincerely,

/RA/

Kevin Hsueh, Chief  
Licensing Processes Branch  
Division of Policy and Rulemaking  
Office of Nuclear Reactor Regulation

Project No. 728

Enclosure:  
Final SE (Proprietary)

~~OFFICIAL USE ONLY PROPRIETARY INFORMATION~~

G. Peters

- 2 -

In accordance with the guidance provided on the NRC website, we request that AREVA publish approved proprietary and non-proprietary versions of TR EMF-2103(P), Revision 3, 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 (RAIs) and your responses. The approved versions shall include an "-A" (designating approved) following the TR identification symbol.

As an alternative to including the RAIs and RAI responses behind the title page, if changes to the TRs provided to the NRC staff to support the resolution of RAI responses, and the NRC staff reviewed and approved those changes as described in the RAI responses, there are two ways that the accepted version can capture the RAIs:

1. The RAIs and RAI responses can be included as an Appendix to the accepted version.
2. The RAIs and RAI responses can be captured in the form of a table (inserted after the final SE) which summarizes the changes as shown in the approved version of the TR. The table should reference the specific RAIs and RAI responses which resulted in any changes, as shown in the accepted version of the TR.

If future changes to the NRC's regulatory requirements affect the acceptability of this TR, AREVA will be expected to revise the TR appropriately or justify its continued applicability for subsequent referencing. Licensees referencing this TR would be expected to justify its continued applicability or evaluate their plant using the revised TR.

Sincerely,

/RA/

Kevin Hsueh, Chief  
Licensing Processes Branch  
Division of Policy and Rulemaking  
Office of Nuclear Reactor Regulation

Project No. 728

Enclosure:  
Final SE (Proprietary)

DISTRIBUTION:

PUBLIC	RidsNrrDpr	RidsResOd	JDean
RidsNrrDprPlpb	RidsNroOd	RidsNrrDss	JRowley
RidsNrrLADHarrison	RidsOgcMailCenter	KHsueh	LWard
RidsACRS_MailCTR	RidsNrrDssSnpb	BParks	JLehning

**ADAMS Accession Nos.: ML16139A656 (Cover letter); ML16139A708 (SE);  
ML16139A754 (Attachment); ML16139A623 (Package); \*concurred via e-mail** **NRR-106**

OFFICE	PLPB/PM	PLPB/LA*	SNPB/BC	PLPB/BC
NAME	JRowley	DHarrison	JDean	KHsueh
DATE	06/ 7 /2016	06/07/2016	06/ 16 /2016	06/ 17 /2016

OFFICIAL RECORD COPY