



July 29, 2013
NRC:13:064

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

Submittal of AREVA NP Inc. Technical Report ANP-10318, "Pipe Rupture External Loading Effects on U.S. EPR™ Essential Structures, Systems, and Components," Revision 1

The purpose of this submittal is to provide the NRC with Revision 1 of AREVA NP Inc. (AREVA NP) Technical Report ANP-10318, "Pipe Rupture External Loading Effects on U.S. EPR™ Essential Structures, Systems, and Components." This technical report describes the AREVA NP methodology used to conservatively calculate the external loading effects on essential structures, systems, and components (SSC) due to jet impingement, including unsteadiness, and potential blast effects. The revision to the technical report incorporates NRC feedback as well as revised methodology for blast analysis to determine the loading on essential SSCs.

In Reference 1, the NRC provided a request for additional information (RAI) regarding the U.S. EPR design certification application. In Reference 2, AREVA NP provided an interim response to RAI 354 Q03.06.02-35 and markups of proposed changes to Technical Report ANP-10318. In Reference 3, AREVA NP provided an updated schedule for revision to the technical report and final response to RAI 354 Q03.06.02-35.

Revision 1 of Technical Report ANP-10318 supersedes the markups provided in Reference 2 and supports AREVA NP's final response to RAI 354 Q03.06.02-35 provided in Reference 4. The revised technical report is incorporated by reference into the U.S. EPR Final Safety Analysis Report (FSAR) as part of the final response to RAI 354 Q03.06.02-35. AREVA NP requests that the NRC incorporate the review of this revised report into the evaluation of FSAR Chapter 3 in the Safety Evaluation Report for the U.S. EPR FSAR, in a manner consistent with other reports that are incorporated by reference into the U.S. EPR FSAR.

AREVA NP considers some of the material contained in the enclosures 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. Proprietary and non-proprietary versions of the technical report are enclosed with this letter.

If you have any questions related to this information, please contact Len Gucwa by telephone at (434) 832-3466, or by e-mail at Len.Gucwa.ext@areva.com.

Sincerely,

A handwritten signature in black ink, appearing to read 'Pedro Salas', is written over a large, circular scribble.

Pedro Salas, Director
Regulatory Affairs
AREVA NP Inc.

AREVA NP INC.

DOT7
NRC

References:

1. Email, Getachew Tesfaye (NRC) to Martin C. Bryan (AREVA NP Inc.) "U.S. EPR Design Certification Application RAI No. 354 (4106, 4107, 4220), FSAR Ch. 3," March 16, 2010.
2. Letter, Sandra M. Sloan (AREVA NP Inc.), to the Document Control Desk (NRC), "Response to U.S. EPR Design Certification Application RAI 354, Supplement 29", NRC:11:094, August 30, 2011.
3. Letter, P. Salas (AREVA NP Inc) to Document Control Desk (NRC), "Periodic Update to Closure Plans for Resolution of Open Items for U.S. EPR Design Certification Application," NRC: 13:012, April 12, 2013.
4. Email, Dennis Williford (AREVA NP Inc.) to Amy M. Snyder (NRC), Supplement 40, Final Response for RAI 354, Question 03.06.02-35, July 29, 2013.

Enclosures:

1. Proprietary version of Technical Report ANP-10312P, "Pipe Rupture External Loading Effects on U.S. EPR™ Essential Structures, Systems, and Components," Revision 1
2. Non-Proprietary version of Technical Report ANP-10312NP, "Pipe Rupture External Loading Effects on U.S. EPR™ Essential Structures, Systems, and Components," Revision 1
3. Notarized Affidavit

cc: A. M. Snyder
J. P. Segala
Docket 52-020

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:

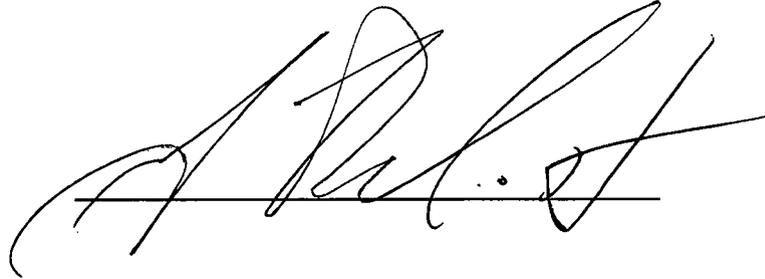
- (a) The information reveals details of AREVA NP's research and development plans and programs or their results.
- (b) Use of the information by a competitor would permit the competitor to significantly reduce its expenditures, in time or resources, to design, produce, or market a similar product or 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(c) and 6(d) above.

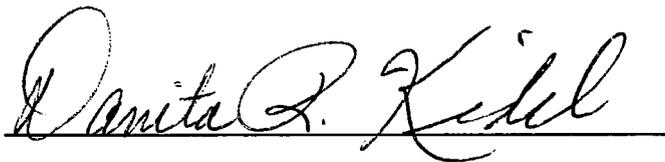
7. In accordance with AREVA NP's policies governing the protection and control of information, proprietary information contained in this Document has been made available, on a limited basis, to others outside AREVA NP only as required and under suitable agreement providing for nondisclosure and limited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

A handwritten signature in black ink, appearing to be 'A. R. Kidd', written over a horizontal line.

SUBSCRIBED before me this 26
day of July 2013.

A handwritten signature in black ink, reading 'Danita R. Kidd', written over a horizontal line.

Danita R. R. Kidd
NOTARY PUBLIC, COMMONWEALTH OF VIRGINIA
MY COMMISSION EXPIRES: 12/31/2016
Reg.#205569

