



May 22, 2015  
NRC:15:022

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

**Anti-Dilution Trip Mode Applicability in ANP-10287P Revision 2**

Ref. 1: Letter, Pedro Salas (AREVA Inc.) to Document Control Desk (NRC), "U.S. EPR Design Certification Application – Response to RAI 505, Question 07.01-33," NRC:14:048, August 6, 2014.

On August 6, 2014, AREVA Inc. (AREVA) submitted ANP-10287P Revision 2, "Incore Trip Setpoint and Transient Methodology for U.S. EPR," for NRC review and approval (Reference 1). Subsequently, an error was discovered in the identification of shutdown modes applicable to the anti-dilution trip functions described in Appendix F. This letter identifies the necessary changes to the topical report to allow the NRC staff to complete the safety evaluation.

The enclosed file contains the corrections to ANP-10287P Revision 2, Appendix F. The corrections reflect that at least one reactor coolant pump is in operation throughout Mode 4 during plant cooldown and heatup. The setpoint analyses and the description of the inadvertent boron dilution event in U.S. EPR FSAR Section 15.4.6 are consistent with these changes.

Pending confirmation that these changes are acceptable, AREVA proposes to correct ANP-10287P in the approved version of the topical report after issuance of the NRC safety evaluation.

AREVA considers some of the information contained in the enclosed document 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 information, please contact Nathan Hottle by telephone at (434) 832-3864, or by e-mail at [Nathan.Hottle@areva.com](mailto:Nathan.Hottle@areva.com).

Sincerely,

A handwritten signature in black ink, appearing to read 'Pedro Salas', is written over a large, stylized, scribbled-out signature.

Pedro Salas, Director  
Regulatory Affairs  
AREVA Inc.

**AREVA INC.**

Enclosures:

1. ANP-10287P Revisions (Proprietary)
2. ANP-10287NP Revisions (Non Proprietary)
3. Notarized affidavit, ANP-10287P Revisions

cc: B. C. Gleaves  
J. P. Segala  
G. F. Wunder  
Docket 52-020

Document Components for NRC:15:022

001 AREVA Transmittal Letter NRC 15 022.pdf 732,123 bytes

002 ANP10287P Revisions.pdf 135,146 bytes

003 ANP10287NP Revisions.pdf 132,896 bytes

004 Affidavit ANP10287P Revisions.pdf 1,347,682 bytes