



August 31, 2012  
NRC:12:045

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

**Response to a Request for Additional Information Regarding EMF-93-177(P)(A), Revision 1, Supplement 1(P), Revision 0, "Mechanical Design for BWR Fuel Channels Supplement 1: Advanced Methods for New Channel Designs"**

Ref. 1: Letter, Ronnie L. Gardner (AREVA NP Inc.) to Document Control Desk (NRC), "Request for Review and Approval of EMF-93-177(P)(A), Revision 1, Supplement 1(P), Revision 0, 'Mechanical Design for BWR Fuel Channels Supplement 1: Advanced Methods for New Channel Designs'," NRC:10:023, March 25, 2010.

Ref. 2: Email, Holly Cruz (NRC) to Gayle Elliott (AREVA NP Inc.), "Revised RAI Response Date for TRs BAW-10247PA, Rev. 0, Suppl. 1P, Rev. 0, and EMF-93-177(P)(A), Rev. 1, Suppl. 1(P), Rev. 0," ADAMS Accession No. ML12222A219, August 9, 2012.

AREVA NP Inc. (AREVA NP) requested the NRC's review and approval of the topical report EMF-93-177(P)(A), Revision 1, Supplement 1(P), Revision 0, "Mechanical Design for BWR Fuel Channels Supplement 1: Advanced Methods for New Channel Designs" in Reference 1. The NRC provided a request for additional information (RAI) regarding this topical report in Reference 2. The response to this RAI is enclosed with this letter as Attachment A.

Additionally, AREVA has identified minor errors in the submitted topical report EMF-93-177(P)(A), Revision 1, Supplement 1(P), Revision 0. Attachment B provides a listing of the corrections to these errors as well as a replacement page for the topical report with the corrected information highlighted on each page. The corrections will be incorporated in the release of the approved topical report after NRC approval is received.

AREVA NP considers some of the material contained in the attachments 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 attached RAI responses and Topical Report error corrections are provided.

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Pedro Salas', is written over a horizontal line.

Pedro Salas, Director  
Regulatory Affairs  
AREVA NP Inc.

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Attachments:

- A. ANP-EMF-93-177P & NPA Revision 1, Supplement 1Q1P & NP, Revision 0, Mechanical Design for BWR Fuel Channels Supplement 1: Advanced Methods for New Channel Designs Responses to NRC Request for Additional Information
- B. Changes to the EMF-93-177(P)(A) Revision 1, Supplement 1(P) Revision 0 NRC Submittal
- C. Notarized Affidavit

cc: H. Cruz  
J. Rowley  
Project 728

**Attachment A**

ANP-EMF-93-177PA Revision 1, Supplement 1Q1P, Revision 0  
Mechanical Design for BWR Fuel Channels  
Supplement 1: Advanced Methods for New Channel Designs  
Responses to NRC Request for Additional Information  
&  
ANP-EMF-93-177NPA Revision 1, Supplement 1Q1NP, Revision 0  
Mechanical Design for BWR Fuel Channels  
Supplement 1: Advanced Methods for New Channel Designs  
Responses to NRC Request for Additional Information