



**FRAMATOME ANP**

An AREVA and Siemens Company

**FRAMATOME ANP, Inc.**

January 14, 2005  
NRC:05:002

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

**Request for Review and Approval of EMF-93-177(P) Revision 1, "Mechanical Design for BWR Fuel Channels"**

Ref.: 1. EMF-93-177(P)(A), "Mechanical Design for BWR Fuel Channels," August 1995.

Framatome ANP requests the NRC's review and approval of a revision to the topical report EMF-93-177(P)(A), "Mechanical Design for BWR Fuel Channels," (Reference 1).

The primary purpose of this revision is to correct an error in the report. The error is related to the methodology that is used to determine the allowable differential pressures (or channel stresses) across the channel wall during normal operation (and AOO) as well as under accident conditions (LOCA). The allowable differential pressures were erroneously determined with a limit analysis criterion but using a large-deflection solution. An error also was made by describing the method as a limit analysis. A limit analysis criterion of interpreting the solution results should not be used, as it requires the use of a small-deflection solution.

The allowable differential pressures are evaluated by two analyses – a stress analysis and a deformation analysis. The deformation analysis is more limiting than the stress analysis. That is, the allowable differential pressures are set by the deformation analysis. When the error in the stress analysis is corrected, the results from the deformation analysis are still more limiting.

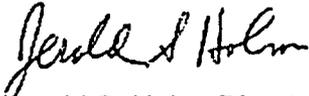
Framatome ANP requests that the NRC complete its review of the topical report by June 30, 2005. The expedited review schedule is requested since the revised report corrects an error in a previously approved topical report. We expect that the revision will be acceptable to the NRC since the change is consistent with methods in the ASME Code.

A proprietary and non-proprietary version of this letter and its attachments are provided on the enclosed CDs.

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Framatome ANP 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.

Very truly yours,



Jerald S. Holm, Director  
Regulatory Affairs

Enclosures

cc: M. C. Honcharik  
Project 728



6. The following criteria are customarily applied by FANP to determine whether information should be classified as proprietary:

- (a) The information reveals details of FANP'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 FANP.
- (d) The information reveals certain distinguishing aspects of a process, methodology, or component, the exclusive use of which provides a competitive advantage for FANP in product optimization or marketability.
- (e) The information is vital to a competitive advantage held by FANP, would be helpful to competitors to FANP, and would likely cause substantial harm to the competitive position of FANP.

7. In accordance with FANP'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 FANP only as required and under suitable agreement providing for nondisclosure and limited use of the information.

8. FANP 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.

Gerald Holm

SUBSCRIBED before me this 14th  
day of January, 2005.

Susan K. McCoy

Susan K. McCoy  
NOTARY PUBLIC, STATE OF WASHINGTON  
MY COMMISSION EXPIRES: 1/10/2008

