



October 5, 2001  
NRC:01:043

Document Control Desk  
ATTN: Chief, Planning, Program and Management Support Branch  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555-0001

**NRC Review of EMF-2103(P) Revision 0, Realistic Large Break LOCA Methodology for Pressurized Water Reactors**

Ref.: References are listed on page 2.

Framatome ANP requested the NRC's acceptance for referencing in licensing actions the topical report EMF-2103(P) Revision 0, "Realistic Large Break LOCA Methodology for Pressurized Water Reactors" in Reference 1. This letter transmits a collection of additional information to support and facilitate the NRC's review: specifically, References 2 through 9. A CD containing proprietary versions of the supporting information is enclosed with this letter.

A CD containing the code S-RELAP5 and a sample problem has also been provided under separate cover. The CD includes those codes and files necessary to execute the sample problem.

Framatome ANP considers some of the information contained in the enclosures to be proprietary. As required by 10 CFR 2.790(b), an affidavit is enclosed to support the withholding of the information from public disclosure.

Very truly yours,

A handwritten signature in cursive script, appearing to read 'James F. Mallay'.

James F. Mallay, Director  
Regulatory Affairs

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Enclosures

cc: R. Landry  
J. S. Cushing  
Project 693

**Framatome ANP, Inc.**

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- Ref.: 1. Letter, J. F. Mallay (FRA-ANP) to Document Control Desk (NRC), "Request for Review of EMF-2103(P) Revision 0, Realistic Large Break LOCA Methodology for Pressurized Water Reactors," NRC:01:035, August 20, 2001 (Accession #ML012400042).
- Ref.: 2. EMF-2100(P) Revision 4, *S-RELAP5 Models and Correlations Code Manual*, January 2001.
- Ref.: 3. EMF-2101(P) Revision 2, *S-RELAP5 Programmers Guide*, January 2001.
- Ref.: 4. EMF-CC-097(P) Revision 7, *S-RELAP5 Input Data Requirements*, August 2000.
- Ref.: 5. ANF-90-145(P)(A), *RODEX3 Fuel Rod Thermal-Mechanical Response Evaluation Model*, Volume 1, "Theoretical Manual," and Volume 2, "Thermal and Gas Release Assessments," April 1996.
- Ref.: 6. EMF-1557(P) Revision 4, *RODEX3A: Theory and User's Manual*, November 2000.
- Ref.: 7. EMF-CC-039(P) Revision 2 Supplement 1, *ICECON Code User's Manual: A Computer Program Used to Calculate Containment Back Pressure for LOCA Analysis (Including Ice Condenser Plants)*, December 1999.
- Ref.: 8. EMF-2054(P) Revision 2, *Code Input Development Guidelines for Realistic Large Break LOCA Analysis of a Pressurized Water Reactor*, July 2001.
- Ref.: 9. EMF-2058, Revision 1, *S-RELAP5 Realistic Large Break LOCA Analysis Guideline*, July 2001.

## AFFIDAVIT

STATE OF WASHINGTON   )  
                                  ) ss.  
COUNTY OF BENTON     )

1.       My name is Jerald S. Holm. I am Manager, Product Licensing, for Framatome ANP ("FRA-ANP"), and as such I am authorized to execute this Affidavit.
2.       I am familiar with the criteria applied by FRA-ANP to determine whether certain FRA-ANP information is proprietary. I am familiar with the policies established by FRA-ANP to ensure the proper application of these criteria.
3.       I am familiar with the FRA-ANP material enclosed with letter NRC:01:037, to wit: References 2 through 9, referred to herein as "Documents," and a CD containing computer codes and associated files, referred to herein as a "CD." Information contained in this Document has been classified by FRA-ANP as proprietary in accordance with the policies established by FRA-ANP for the control and protection of proprietary and confidential information.
4.       These Documents and the CD contain information of a proprietary and confidential nature and is of the type customarily held in confidence by FRA-ANP and not made available to the public. Based on my experience, I am aware that other companies regard information of the kind contained in this Document as proprietary and confidential.
5.       These Documents and the CD have been made available to the U.S. Nuclear Regulatory Commission in confidence with the request that the information contained in these Documents and the CD be withheld from public disclosure.

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

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

7. In accordance with FRA-ANP's policies governing the protection and control of information, proprietary information contained in these Documents and the CD have been made available, on a limited basis, to others outside FRA-ANP only as required and under suitable agreement providing for nondisclosure and limited use of the information.

8. FRA-ANP 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.

Judd S. Holm

SUBSCRIBED before me this 9th  
day of October, 2001.

Susan K. McCoy

Susan K. McCoy  
NOTARY PUBLIC, STATE OF WASHINGTON  
MY COMMISSION EXPIRES: 1/10/04

