

March 23, 2001
FANP-01-915

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

Subject: Additional Information on Use of the Void-Dependent Cross-Flow Model
Implemented in RELAP5/MOD2-B&W Code (BAW-10164, Rev. 4 P) for B&W-
Plant SBLOCA Applications Performed Using the BWNT LOCA EM (BAW-
10192PA)

Gentlemen:

The attached response addresses a verbal request for additional information from Frank Orr of the Nuclear Regulatory Commission. It was prepared to clarify use of a code automation feature in the new RELAP5/MOD2-B&W code topical revision (BAW-10164 Revision 4). This material clarifies the development and future use of the RELAP5/MOD2 void-dependent cross-flow model for SBLOCA applications performed for the B&W-designed plants in accordance with the BWNT LOCA Evaluation Model (EM) (BAW-10192 PA). This new code model automates the user implementation of the core cross-flow modeling approach used in this NRC-approved LOCA EM topical.

Some of the material in the attachment is considered Proprietary to Framatome ANP (FRA-ANP) as sworn by me as Vice President, Engineering and Licensing, FRA-ANP, presented as an enclosure within this submittal. All the proprietary material, which is enclosed in [brackets], is classified as categories "c" and "e" based on the FRA-ANP proprietary criteria given in the enclosure.

If clarification of any of the provided information is needed, please contact John Klingenfus at (804) 832-3294.

Very truly yours



R. W. Ganthner
Vice President
Engineering and Licensing

cc: Frank Orr/NRC
John Klingenfus, OF53
R. J. Schomaker, OF57
J. R. Biller, OF53

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AFFIDAVIT OF RAYMOND W. GANTHNER

- A. My name is Raymond W. Ganthner. I am Vice-President of Engineering & Licensing for Framatome ANP, Inc. (FRA-ANP), and as such, I am authorized to execute this Affidavit.
- B. I am familiar with the criteria applied by FRA-ANP to determine whether certain information of FRA-ANP is proprietary and I am familiar with the procedures established within FRA-ANP to ensure the proper application of these criteria.
- C. In determining whether an FRA-ANP document is to be classified as proprietary information, an initial determination is made by the Unit Manager, who is responsible for originating the document, as to whether it falls within the criteria set forth in Paragraph D hereof. If the information falls within any one of these criteria, it is classified as proprietary by the originating Unit Manager. This initial determination is reviewed by the cognizant Section Manager. If the document is designated as proprietary, it is reviewed again by me to assure that the regulatory requirements of 10 CFR Section 2.790 are met.
- D. The following information is provided to demonstrate that the provisions of 10 CFR Section 2.790 of the Commission's regulations have been considered:
- (i) The information has been held in confidence by FRA-ANP. Copies of the document are clearly identified as proprietary. In addition, whenever FRA-ANP transmits the information to a customer, customer's agent, potential customer or regulatory agency, the transmittal requests the recipient to hold the information as proprietary. Also, in order to strictly limit any potential or actual customer's use of proprietary information, the substance of the following provision is included in all agreements entered into by FRA-ANP, and an equivalent version of the proprietary provision is included in all of FRA-ANP's proposals:

AFFIDAVIT OF RAYMOND W. GANTHNER (Cont'd.)

"Any proprietary information concerning Company's or its Supplier's products or manufacturing processes which is so designated by Company or its Suppliers and disclosed to Purchaser incident to the performance of such contract shall remain the property of Company or its Suppliers and is disclosed in confidence, and Purchaser shall not publish or otherwise disclose it to others without the written approval of Company, and no rights, implied or otherwise, are granted to produce or have produced any products or to practice or cause to be practiced any manufacturing processes covered thereby.

Notwithstanding the above, Purchaser may provide the NRC or any other regulatory agency with any such proprietary information as the NRC or such other agency may require; provided, however, that Purchaser shall first give Company written notice of such proposed disclosure and Company shall have the right to amend such proprietary information so as to make it non-proprietary. In the event that Company cannot amend such proprietary information, Purchaser shall prior to disclosing such information, use its best efforts to obtain a commitment from NRC or such other agency to have such information withheld from public inspection.

Company shall be given the right to participate in pursuit of such confidential treatment."

AFFIDAVIT OF RAYMOND W. GANTHNER (Cont'd.)

- (ii) The following criteria are customarily applied by FRA-ANP in a rational decision process to determine whether the information should be classified as proprietary. Information may be classified as proprietary if one or more of the following criteria are met:
- a. Information reveals cost or price information, commercial strategies, production capabilities, or budget levels of FRA-ANP, its customers or suppliers.
 - b. The information reveals data or material concerning FRA-ANP research or development plans or programs of present or potential competitive advantage to FRA-ANP.
 - c. The use of the information by a competitor would decrease his expenditures, in time or resources, in designing, producing or marketing a similar product.
 - d. The information consists of test data or other similar data concerning a process, method or component, the application of which results in a competitive advantage to FRA-ANP.
 - e. The information reveals special aspects of a process, method, component or the like, the exclusive use of which results in a competitive advantage to FRA-ANP.
 - f. The information contains ideas for which patent protection may be sought.

AFFIDAVIT OF RAYMOND W. GANTHNER (Cont'd.)

The document(s) listed on Exhibit "A", which is attached hereto and made a part hereof, has been evaluated in accordance with normal FRA-ANP procedures with respect to classification and has been found to contain information which falls within one or more of the criteria enumerated above. Exhibit "B", which is attached hereto and made a part hereof, specifically identifies the criteria applicable to the document(s) listed in Exhibit "A".

- (iii) The document(s) listed in Exhibit "A", which has been made available to the United States Nuclear Regulatory Commission was made available in confidence with a request that the document(s) and the information contained therein be withheld from public disclosure.
- (iv) The information is not available in the open literature and to the best of our knowledge is not known by General Electric, Westinghouse-CE, or other current or potential domestic or foreign competitors of FRA-ANP.
- (v) Specific information with regard to whether public disclosure of the information is likely to cause harm to the competitive position of FRA-ANP, taking into account the value of the information to FRA-ANP; the amount of effort or money expended by FRA-ANP developing the information; and the ease or difficulty with which the information could be properly duplicated by others is given in Exhibit "B".

E. I have personally reviewed the document(s) listed on Exhibit "A" and have found that it is considered proprietary by FRA-ANP because it contains information which falls within one or more of the criteria enumerated in Paragraph D, and it is information which is customarily held in confidence and protected as proprietary information by FRA-ANP. This report

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comprises information utilized by FRA-ANP in its business which affords FRA-ANP an opportunity to obtain a competitive advantage over those who may wish to know or use the information contained in the document(s).



RAYMOND W. GANTHNER

State of Virginia)

) SS. Lynchburg

City of Lynchburg)

Raymond W. Ganthner, being duly sworn, on his oath deposes and says that he is the person who subscribed his name to the foregoing statement, and that the matters and facts set forth in the statement are true.



RAYMOND W. GANTHNER

Subscribed and sworn before me
this 23rd day of March 2001.

Brenda C. Maddox

Notary Public in and for the City
of Lynchburg, State of Virginia.

*el was commissioned a notary public
as Brenda C. Cardona.*

My Commission Expires July 31, 2003

EXHIBITS A & B

EXHIBIT A

Response to a Verbal Request for Additional Information on Use of the Void-Dependent Cross-Flow Model Implemented in RELAP5/MOD2-B&W Code (BAW-10164, Rev. 4P) for B&W-Plant SBLOCA Applications Performed Using the BWNT LOCA EM (BAW-10192PA).

EXHIBIT B

The above listed document contains information, which is considered Proprietary in accordance with Criteria c and e of the attached affidavit.