



FRAMATOME ANP

An AREVA and Siemens company

FRAMATOME ANP, Inc.

PROJ 728

December 19, 2002
NRC:02:065

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

Issuance of BAW-10241P, BHTP DNB Correlation Applied with LYNXT, for Review and Acceptance

- Ref.: 1. BAW-10156P-A, Revision 1, *LYNXT Core Transient Thermal-Hydraulic Program*, August 1993.
- Ref.: 2. EMF-92-153(P)(A) Supplement 1, *HTP: Departure from Nucleate Boiling Correlation for High Thermal Performance Fuel*, March 1994.
- Ref.: 3. XN-NF-75-21(P)(A), Revision 2, *XCOBRA-IIIC: A Computer Code to Determine the Distribution of Coolant during Steady State and Transient Operation*, January 1986.

Framatome ANP requests the NRC's review and acceptance of topical report BAW-10241P, *BHTP DNB Correlation Applied with LYNXT*. This report describes a DNB correlation that has been developed using the LYNXT thermal-hydraulic code (Reference 1) for fuel designs equipped with HTP spacer grids. Enclosed are two CDs, one containing the proprietary version of the topical report and one for the non-proprietary version.

The BHTP DNB correlation is of the same form and uses the same CHF database as the HTP DNB correlation (Reference 2). Adjustments have been made in some of the coefficients used to describe the performance of this spacer grid design when the LYNXT code is used. The HTP DNB correlation was developed using the XCOBRA-IIIC thermal-hydraulic code (Reference 3).

Framatome ANP believes that the approval of this correlation should be based on the previous approval of Reference 2. The only new aspect to be accepted is the use of the DNB correlation using a different thermal-hydraulic computer code. The uncertainties, confidence level, and ranges of application are the same or similar to the approved HTP correlation. The first planned application of the BHTP correlation is for the Mark-B/HTP fuel design, which uses HTP spacer grids and is scheduled for installation in Crystal River Unit 3 Cycle 14 in the Fall of 2003.

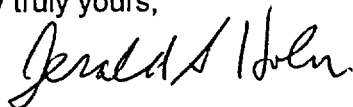
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Add: Drew Holland

In view of the limited review being requested, Framatome ANP requests that an acceptable SER be issued by June 30, 2003. Framatome ANP would be pleased to meet with appropriate members of the NRC staff in January to describe the contents of the report and the specific areas requiring NRC review.

Framatome ANP considers some of the material contained in the enclosed documents 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,



James F. Mallay, Director
Regulatory Affairs

Enclosures

cc: D. G. Holland
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 has 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.

James Mally

SUBSCRIBED before me this 17th
day of December, 2002.

Ella F. Carr-Payne

Ella F. Carr-Payne
NOTARY PUBLIC, STATE OF VIRGINIA
MY COMMISSION EXPIRES: 8/31/05

