



FRAMATOME ANP

An AREVA and Siemens company

FRAMATOME ANP, Inc.

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NRC:03:019

Mr. Jared S. Wermiel
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
One White Flint North
11555 Rockville Pike
Rockville, MD 20852-2738

Status of Framatome ANP Topical Reports

Dear Mr. Wermiel:

This letter reinstates the practice of providing a semi-annual update to the NRC on the status of topical reports being reviewed by the NRC and topical reports that are being developed for future submittal. The listing of reports being reviewed includes a statement of expectation for completion of the review and other notable milestones. The listing of future reports provides an indication of planned schedules. Both listings are provided in the attachments.

Many of the topical reports already submitted and planned for submittal during the next year reflect Framatome ANP's intent to either integrate the methods developed previously by Siemens Power Corporation, FTI, and FCF or to bring consistency among these methods. Some of the reports are designed to align MOX methods with those already being used for traditional fuel. In addition, the format of topical reports is being made consistent to facilitate the NRC's review and understanding.

In the future, and beyond the scope of this letter, topical reports will be submitted to describe the application of the S-RELAP5 technology to all transient analyses for BWRs.

Very truly yours,

James F. Mallay, Director
Regulatory Affairs

Enclosures

cc: D. G. Holland
Project 693
Project 728

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Topical Reports Being Reviewed by the NRC

1. Reports Related to Thermal Hydraulics (LOCA and CHF)

- BAW-10166, Rev. 4, BEACH—Best Estimate Analysis Core Heat Transfer—A Computer Program for Reflood Heat Transfer during LOCA (MB 3866)

Two appendices to this report were submitted in December 2001. These brief appendices present validation cases for increased cladding temperatures at the initiation of reflood and for low reflood rates. No changes were made in the evaluation model. The status of the review of these appendices is uncertain because NRC attention was diverted to re-evaluating the original evaluation model.

The SER was expected in mid-2002.

- EMF-2103, Realistic LOCA (MB 2865)

A draft SER was prepared on December 20, 2002 and is still under review. The SER was scheduled for October 31, 2002.

- BAW-10240, "Incorporation of M5 Properties into Framatome ANP Approved Methods" (MB 6462)

Report was submitted on October 1, 2002. The SER is expected by May 31, 2003.

- BAW-10179, Rev. 5, Mark-B Methodology Update

Report was submitted on December 18, 2002. The SER is expected by May 31, 2003.

- BAW-10241, BHTP DNB Correlation Applied with LYNXT

Report was submitted on December 19, 2002, and an RAI is expected in early April 2003. The SER is expected by May 31, 2003.

2. Reports Related to Fuel Rod Design and Analysis

- BAW-10231, COPERNIC Fuel Rod Design, MOX Version (MA 9783)

Two RAIs were issued in May 2001 and May 2002. Final responses to the RAIs are scheduled for April 2003. The SER is expected by June 30, 2003.

- BAW-10186, Rev. 1, Supplement 1, Mark BW Extended Burnup. Extends burnup limit to 62 GWd/Mtu for Mark-BW (MB 3650)

Report was submitted on December 1, 2001. The SER was expected by December 2002.

- BAW-10238, MOX Fuel Design Report (MB 5059)

Report was submitted on April 30, 2002. As a result of a teleconference on November 1, it was decided to rewrite and resubmit the report, which is scheduled for April 2003.

- BAW-10239, Fuel Mechanical Design for Advanced Mark-BW (MB 5060)

Report was submitted on April 30, 2002, and an RAI consisting of five questions was prepared on March 26. The SER is expected in May 2003.

3. Reports Related to Plant-Specific Applications

- BAW-2374, Rev. 1, Risk-Informed Assessment of OTSG Thermal Loads during Hot Leg LOCA (MB 1752)

The NRC terminated its review of this report in December 2002 and suggested a success path to resolve the matter of the adequacy of the design basis of the SG tubes in a meeting on February 6, 2003. This report was withdrawn on March 13, 2003. A new topical report is scheduled to be submitted in mid-2004.

- BAW-2308, "Initial RT-NDT of Linde 80 Weld Material" (MB 6336)

Report was submitted to the NRC on July 26, 2002 and was formally accepted for review on October 16. The SER is expected by October 2003.

Topical Reports Planned for Submittal

1. Reports Related to Thermal Hydraulics (LOCA and CHF)

- EMF-2310, Rev. 1, PWR Non-LOCA Methodology (revised boron dilution event analysis)
Scheduled for April 2003.
- BAW-102XX, Implementation of Mark-BW DNB Correlation into XCOBRA-IIIC
Scheduled for June 2003.

2. Reports Related to Fuel Rod Design and Analysis

- BAW-2241, Rev. 2, "Fluence and Uncertainty Methodologies"
Scheduled for April 2003.
- BAW-102XX, "Methodology for Thermal-Mechanical Evaluation of BWR Fuel Design" (RODEX4)
Scheduled for October 2003.

3. Reports Related to Plant-Specific Applications

- BAW-23XX, "Zero Power Physics Testing for B&W Reactors." This document will replace a portion of BAW-10179, Rev. 4. When the approved version of BAW-10179, Rev. 5 (which is currently under review) is published, it will include this document.
Scheduled for May 2003.