

March 17, 1994

The CRGR charter states that the CRGR should review each of the staff's approvals of topical reports. However, the staff believes that CRGR review is not necessary because Appendix F is simply an extension of the methodology in the previously approved report. If you agree that a CRGR review is not necessary, please indicate so on the line below. Otherwise, the staff will prepare an appropriate CRGR package.

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Martin J. Virgilio, Acting Director  
Division of Systems Safety and Analysis

Enclosures: As stated

*[Signature]*  
Ashok C. Thadani  
Approved: CRGR review is not necessary

EDITED BY: M. MEJAC  
DATED: 3/4/94

Contact: L. Kopp, SRXB/DSSA  
504-2879

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MEMORANDUM FOR: Ashok C. Thadani, Associate Director  
for Inspection and Technical Assessment

FROM: Martin J. Virgilio, Acting Director  
Division of Systems Safety and Analysis

SUBJECT: WAIVER OF CRGR REVIEW FOR BAW-10187P -  
APPENDIX F

- References:
1. Letter from J. H. Taylor to NRC Document Control Desk, "Statistical Core Design Topical Report, BAW-10187P," February 25, 1994.
  2. Letter from A. C. Thadani to J. H. Taylor, B&W Fuel Company, "Acceptance for Referencing of Topical Report BAW-10187P, 'Statistical Core Design for B&W-Designed 177 FA Plants,' (TAC No. M85118)," March 24, 1993.
  3. Memorandum from E. L. Jordan to T. E. Murley, "CRGR Consideration of Topical Reports," September 29, 1989.

Enclosed is the safety evaluation report prepared by NRR in which the staff accepts Appendix F to BAW-10187P, submitted with Reference 1. Reference 2 is the safety evaluation report prepared by NRR in which the staff previously accepted Topical Report BAW-10187P for referencing in license applications. In that action, the CRGR review was waived in accordance with the suggested revised procedures in Reference 3.

BAW-10187P describes a thermal-hydraulic analysis technique that combines core state and bundle uncertainties statistically. An overall statistical departure-from-nucleate-boiling (DNB) ratio penalty is determined which is used to establish a statistical design limit which provides 95 percent protection at a 95 percent confidence level against hot pin DNB. In work performed subsequent to the acceptance of BAW-10187P, B&W Fuel Company has found additional sensitivities to certain parameters that affect the statistical design limit. Therefore, Appendix F to BAW-10187P was submitted to describe this additional work and its impact on the statistical design limit.