

GENERAL ELECTRIC

NUCLEAR POWER

SYSTEMS DIVISION

MFN-040-83

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February 24, 1983

U. S. Nuclear Regulatory Commission
Office of Nuclear Reactor Regulation
Washington D.C. 20555

Attention: Mr. Robert L. Tedesco, Assistant Director for Licensing
Division of Licensing

Gentlemen:

SUBJECT: SUBMITTAL OF APPROVED VERSION OF AMENDMENT 1 TO GENERAL
ELECTRIC LICENSING TOPICAL REPORT (NEDE-20566-1-A)

Reference: Letter from R. L. Tedesco (NRC) to G. G. Sherwood (GE),
"Acceptance for Referencing of Topical Report NEDE-20566P,
NEDO-20566-1 Revision 1 and NEDE-20566-4", dated February 4,
1981

In accordance with established procedure, seventy (70) copies of the approved (A) version of "General Electric Company Analytical Model for the Loss-of-Coolant Analysis in Accordance with 10CFR50 Appendix K, Amendment 1 - Calculation of Low Flow Film Boiling Heat Transfer for BWR LOCA Analysis" (NEDO-20566-1-A) are attached for your information and records. The original document (NEDO-20566-1) was published January 1978 and received approval by the NRC for use in ECCS analysis in February 1981 (referenced letter). The NRC acceptance letter and Topical Report Evaluation have been included just previous to the table of contents and approved responses to the NRC questions asked during the report review are included as Appendix C.

The report describes a correlation (Modified Bromley) for calculating heat transfer coefficients under low flow film or pool boiling conditions in the BWR geometry. This report was submitted to the NRC as Amendment 1 to the GE ECCS evaluation model base document (NEDE-20566) which has also been approved by the staff. Approved versions of the base document plus other approved amendments to the current GE model will be completed and submitted to the NRC during the first half of 1983.

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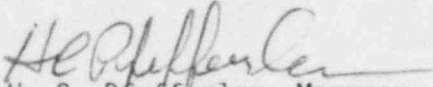
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If you have any questions regarding this document, please call Mr. D. K. Dennison of my staff on (408) 925-3302.

Very truly yours,



H. C. Pfefferlen, Manager
BWR Licensing Program

HCP:rm/A01135

Attachments

cc: M. W. Hodges (NRC)
L. S. Gifford (GE-Bethesda)
D. K. Dennison (GE)