

Mr. Donald A. Reid
Vice President, Operations
Vermont Yankee Nuclear Power Corporation
Ferry Road
Brattleboro, VT 05301

November 5, 1996

SUBJECT: SAFETY EVALUATION OF THE POWER/FLOW EXCLUSION REGION CALCULATION
METHOD USING THE LAPUR5 COMPUTER CODE AND IMPLEMENTATION OF THE
SOLOMON STABILITY MONITOR FOR VERMONT YANKEE NUCLEAR POWER STATION
(TAC NO. M94207)

Dear Mr. Reid:

By letter dated October 31, 1995, as supplemented on November 3, 1995, Vermont Yankee Nuclear Power Corporation submitted a validation report, YAEC-1926, "Method for Power/Flow Exclusion Region Calculation Using the LAPUR5 Computer Code," which is Yankee Atomic Electric Company's application of Boiling Water Reactor Owners Group (BWROG) stability exclusion region methodology for implementation of long-term solution Option 1-D at Vermont Yankee Nuclear Power Station (VYNPS). As discussed in the enclosed safety evaluation (SE), the NRC staff finds that (1) the proposed method for power/flow exclusion region calculation using the LAPUR5 computer code, and (2) the VYNPS implementation of the SOLOMON stability monitor are acceptable. The NRC staff's SE is based, in part, on the attached technical evaluation report (TER) by Oak Ridge National Laboratory.

Prior to incorporating a power/flow exclusion region calculated by this methodology into the plant Core Operating Limits Report, this approved methodology should be referenced in the plant Technical Specifications.

Sincerely,

ORIGINAL SIGNED BY:

C. Craig Harbuck, Acting Senior Project Manager
Project Directorate I-1
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Docket No. 50-271

Enclosure: Safety Evaluation
w/attached TER

cc: See next page

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UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

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Sincerely,

A handwritten signature in cursive script, reading "C. Harbuck", is written over a horizontal line.

C. Craig Harbuck, Acting Senior Project Manager
Project Directorate I-1
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

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Enclosure: Safety Evaluation
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cc: See next page

D. Reid
Vermont Yankee Nuclear Power
Corporation

Vermont Yankee Nuclear Power Station

cc:

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