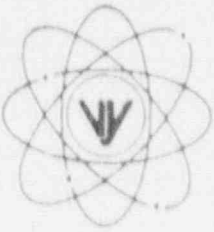


# VERMONT YANKEE NUCLEAR POWER CORPORATION



Ferry Road, Brattleboro, VT 05301-7002

REPLY TO  
ENGINEERING OFFICE  
580 MAIN STREET  
BOLTON, MA 01740  
(508) 779-6711

March 6, 1991  
BVY 91-024

United States Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555

References: a. License No. DPR-28 (Docket No. 50-271)  
b. Letter, VYNPC to USNRC, FVY 87-116, dated December 16, 1987  
c. Letter, USNRC to VYNPC, NVY 90-051, dated March 9, 1990  
d. Letter, VYNPC to USNRC, BVY 90-045, dated April 19, 1990  
e. Letter, VYNPC to USNRC, BVY 90-054, dated May 10, 1990

Subject: Response to Request for Additional Information - FROSSTEY-2 Fuel  
Performance Code

Dear Sir:

The purpose of this letter is to provide our response to your request for additional information regarding NRC Staff review of our revised fuel performance code, FROSSTEY-2.

Our revised fuel performance code, FROSSTEY-2, was submitted for NRC Staff review by Reference (b). In Reference (c), NRC provided an enclosure containing four (4) questions related to the use of FROSSTEY-2 in LOCA applications, and requested Vermont Yankee to submit responses to these questions within 30 days of receipt of Reference (c). Reference (c) was received by Vermont Yankee on March 26, 1990.

Following receipt of Reference (c), it was identified that additional time beyond the requested 30 days would be required to respond to two (2) of the four (4) questions. This was discussed in a telephone conversation between M.B. Fairtile (USNRC - Vermont Yankee Project Manager) and L.A. Tremblay (VYNPC) on Thursday, March 29, 1990. It was agreed in this conversation that Vermont Yankee would provide responses to two (2) questions within the 30 days, and would provide responses to the remaining two (2) questions as soon as possible thereafter.

Vermont Yankee initially responded to two (2) of the four (4) NRC questions by Reference (d). That response was subsequently supplemented by Reference (e) which provided pertinent information considered proprietary by General Electric Company (GE).

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Please find our complete package responding to Questions 1 through 4 of Reference (c), attached as Enclosure B. As described in the introductory section provided with these responses, FROSSTEY-2 computer code modelling changes have been performed to address these issues. Therefore, the responses to Questions 1 and 4 contained herewith supersede those provided previously by Reference (d). It should be noted, however, that some of the information provided herewith in response to Question 1 is the same as that provided previously (Reference (d)) and, as such, is considered proprietary by GE in accordance with the affidavit filed in Reference (e).

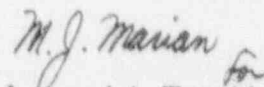
The enclosed information is considered proprietary by Yankee Atomic Electric Company. In accordance with 10CFR2.790(b)(1), an affidavit attesting to the proprietary nature of the enclosures is attached as Enclosure A.

It is our intention to use the FROSSTEY-2 Fuel Performance Code for Vermont Yankee Cycle 16 reload licensing analyses commencing in May, 1991. Additionally, we plan to use the FROSSTEY-2 code for Vermont Yankee loss-of-coolant-accident analyses during the third quarter of 1991.

We trust that this information will assist you in your effort to complete your review of our FROSSTEY-2 fuel performance code; however, if you have any further questions or require additional information, please contact this office.

Very truly yours,

VERMONT YANKEE NUCLEAR POWER CORPORATION



Leonard A. Tremblay, Jr.  
Senior Licensing Engineer

Enclosure A : Affidavit  
Enclosure B : Proprietary information

cc: USNRC Region I Administrator (w/o enclosures)  
USNRC Resident Inspector - VYNPS (w/o enclosures)  
USNRC Project Manager (with enclosures)

WITHHOLD ENCLOSURES  
FROM PUBLIC DISCLOSURE

AFFIDAVIT PURSUANT

TO 10CFR2.790

Yankee Atomic Electric Company )  
Nuclear Services Division )  
Commonwealth of Massachusetts )  
Worcester County ) SS:

I, S. P. Schultz, depose and say that I am the Vice President of Yankee Atomic Electric Company, duly authorized to make this affidavit, and have reviewed or caused to have reviewed the information which is identified as proprietary. I am submitting this affidavit in accordance with the provisions of 10CFR2.790 of the Commission's regulations for withholding this information.

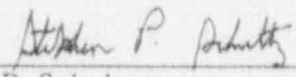
The information for which proprietary treatment is sought is contained in the enclosures to our letter, Vermont Yankee Nuclear Power Corporation to U. S. Nuclear Regulatory Commission, dated March 6, 1991.


Pursuant to the provisions of Paragraph (b) (4) of Section 2.790 of the Commission's regulations, the following is furnished for consideration by the Commission in determining whether the information sought to be withheld from public disclosure, included in the above referenced document, should be withheld.

1. The material contained in this transmittal was obtained at considerable expense to Yankee Atomic Electric Company and Vermont Yankee Nuclear Power Corporation and the release of which would seriously affect our competitive position.
2. The material contained in this transmittal is of the type customarily held in confidence and not customarily disclosed to the public.
3. This information is being transmitted to the Commission in confidence under the provisions of 10CFR2.790 with the understanding that it is to be received in confidence by the Commission.
4. This information is for Commission internal use only and should not be released to persons or organizations outside the Directorate of Regulation and the ACRS without prior approval of Yankee Atomic Electric Company. Should it become necessary to release this information to such persons as part of the review procedure, please contact Yankee Atomic Electric Company.

Further deponent sayeth not.

Sworn to before me this  
6th day of March, 1991

  
\_\_\_\_\_  
S. P. Schultz  
Vice President

  
\_\_\_\_\_  
Kathleen Bates  
Notary Public  
My Commission expires 1/24/97