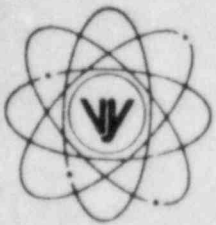


VERMONT YANKEE NUCLEAR POWER CORPORATION

FVY 84-93



RD 5, Box 169, Ferry Road, Brattleboro, VT 05301

REPLY TO:
ENGINEERING OFFICE

1671 WORCESTER ROAD
FRAMINGHAM, MASSACHUSETTS 01701
TELEPHONE 617-872-8100

July 30, 1984

United States Nuclear Regulatory Commission
Washington, D. C. 20555

Attention: Office of Nuclear Reactor Regulation
Mr. Domenic B. Vassallo, Chief
Operating Reactors Branch No. 2
Division of Licensing

References:

- (a) License No. DPR-28 (Docket No. 50-271)
- (b) Letter, USNRC to VYNPC, Generic Letter 84-11, dated April 19, 1984
- (c) Letter, VYNPC to USNRC, FVY 84-22, dated March 13, 1984
- (d) Letter, VYNPC to USNRC, FVY 84-45, dated May 15, 1984
- (e) Letter, VYNPC to USNRC, FVY 83-50, dated June 3, 1983
- (f) Letter, VYNPC to USNRC, FVY 84-27, dated March 23, 1984
- (g) Letter, VYNPC to USNRC, FVY 84-59, dated June 5, 1984
- (h) Letter, VYNPC to USNRC, FVY 84-71, dated June 29, 1984
- (i) Letter, VYNPC to USNRC, FVY 84-77, dated July 3, 1984
- (j) Letter, VYNPC to USNRC, FVY 84-78, dated July 6, 1984
- (k) Letter, USNRC to VYNPC, I&E Bulletin 83-02, dated March 5, 1983
- (l) Letter, USNRC to VYNPC, NRY 83-150, Confirmatory Order, dated June 27, 1983

Subject: Final Report - Results of the Vermont Yankee 1984 Refuel Outage Augmented In-Service Inspection Program

Dear Sir:

The purpose of this letter is to provide you with the attached report which details the results of the Vermont Yankee 1984 Refuel Outage Augmented In-Service Inspection Program. This program was implemented to address concerns detailed in I&E Bulletin 83-02 [Reference (k)] with respect to the discovery of Intergranular Stress Corrosion Cracking (IGSCC) in larger diameter stainless steel recirculation system piping at several Boiling Water Reactor (BWR) facilities. The details of our proposed program were submitted to the NRC by letter, dated March 13, 1984 [Reference (c)], and supplemented by letter, dated March 23, 1984 [Reference (f)].

Subsequent to the submittal of our proposed program, the NRC issued Generic Letter 84-11 [Reference (b)] which prescribed certain actions to be

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taken by licensees to address current IGSCC-related concerns. By letter, dated June 5, 1984 [Reference (g)], we supplemented our March 13, 1984 proposed program to reflect our consideration of the recommendations contained in Generic Letter 84-11.

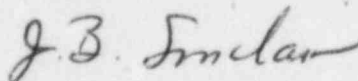
Following our June 5, 1984 submittal, we have held numerous conference calls with members of your staff to address questions raised as a result of the Staff's review of our proposed program. By letters dated June 29, 1984 [Reference (h)], July 3, 1984 [Reference (i)], and July 6, 1984 [Reference (j)], we provided additional information in response to these questions.

The enclosed Final Report details the results of our 1984 Refuel Outage Augmented In-Service Inspection (ISI) Program and provides detailed information with respect to our improved inspection techniques, criteria for evaluating inspection findings, and justification for the continued operation of Vermont Yankee until our 1985 refueling outage. During the 1985 outage, we will replace the Reactor Recirculation and Residual Heat Removal System stainless steel piping.

We are confident that the information provided herewith resolves the concerns expressed in I&E Bulletin 83-02 and demonstrates that plant operation through the 1984/1985 operating cycle is justified. Should you have any questions regarding this matter or desire additional information, please contact us.

Very truly yours,

VERMONT YANKEE NUCLEAR POWER CORPORATION



J. B. Sinclair
Licensing Engineer

JBS/cmj