

July 22, 1985

Docket No. 50-271

Mr. R. W. Capstick  
Licensing Engineer  
Vermont Yankee Nuclear Power Corporation  
1671 Worcester Road  
Framingham, Massachusetts 01701

Dear Mr. Capstick:

SUBJECT: REVIEW OF RECIRCULATION PIPING SYSTEM ANALYSIS

Re: Vermont Yankee Nuclear Power Plant

DISTRIBUTION

Docket File

NRC PDR  
Local PDR  
ORB#2 Reading  
HThompson  
SNorris  
RHermann  
DVassallo  
EJordan  
BGrimes  
JPartlow  
ACRS (10)/OELD  
FCherny  
Gray File  
RKirkwood

By letters dated April 22, May 14, and July 10, 1985, you provided information describing the scope of the Recirculation System Pipe Replacement Program at Vermont Yankee and requested approval of the Pressure Vessel Research Committee (PVRC) recommended damping values (ASME Code Case N-411) for response spectrum seismic piping analysis for the Recirculation and portions of the Residual Heat Removal (RHR) system at Vermont Yankee. We have reviewed the information you have submitted and have determined that our review and approval of the analyses used for the Recirculation Program is necessary. We have reached this determination based on your description of changes in the analysis methods, your request for approval for use of the PVRC damping which differs from that described in your FSAR and the guidance contained in Generic Letter 84-07 with regard to 10 CFR 50.59.

We have completed our review with respect to the mechanical engineering aspects; (1) the use of PVRC damping (ASME Code Case N-411), (2) the use of the ASME B31.1 Power Piping Code for the replacement piping analysis and (3) the use of three dimensional earthquake and 33 Hz cutoff frequency for the analysis and find the methods to be acceptable. The staff review of the structural engineering aspects of the replacement program are under review and will be the subject of separate correspondence.

A copy of our Safety Evaluation is enclosed

Sincerely,

Original signed by/

Domenic B. Vassallo, Chief  
Operating Reactors Branch #2  
Division of Licensing

8508010511 850722  
PDR ADDCK 05000271  
P PDR

Enclosure: As stated

cc/w enclosure: See next page

ORB#2:DL  
SNorris:rc  
07/19/85

ORB#2:DL  
RHermann  
07/19/85

MEB:DEJ, C.  
FCherny  
07/19/85

ORB#2:DL  
DVassallo  
07/22/85

Mr. R. W. Capstick  
Vermont Yankee Nuclear Power Corporation  
Vermont Yankee Nuclear Power Station

cc:

Mr. W. F. Conway  
President & Chief Executive Officer  
Vermont Yankee Nuclear Power Corp.  
R. D. 5, Box 169  
Ferry Road  
Brattleboro, Vermont 05301

Mr. Donald Hunter, Vice President  
Vermont Yankee Nuclear Power Corp.  
1671 Worcester Road  
Framingham, Massachusetts 01701

New England Coalition on  
Nuclear Pollution  
Hill and Dale Farm  
R. D. 2, Box 223  
Putney, Vermont 05346

Mr. Walter Zaluzny  
Chairman, Board of Selectman  
Post Office Box 116  
Vernon, Vermont 05345

J. P. Pelletier, Plant Manager  
Vermont Yankee Nuclear Power Corp.  
Post Office Box 157  
Vernon, Vermont 05354

Raymond N. McCandless  
Vermont Division of Occupational  
& Radiological Health  
Administration Building  
10 Baldwin Street  
Montpelier, Vermont 05602

Honorable John J. Easton  
Attorney General  
State of Vermont  
109 State Street  
Montpelier, Vermont 05602

John A. Ritscher, Esquire  
Ropes & Gray  
225 Franklin Street  
Boston, Massachusetts 02110

W. P. Murphy, Vice President &  
Manager of Operations  
Vermont Yankee Nuclear Power Corp.  
R. D. 5, Box 169  
Ferry Road  
Brattleboro, Vermont 05301

Mr. Gerald Tarrant, Commissioner  
Vermont Department of Public Service  
120 State Street  
Montpelier, Vermont 05602

Public Service Board  
State of Vermont  
120 State Street  
Montpelier, Vermont 05602

Vermont Yankee Decommissioning  
Alliance  
Box 53  
Montpelier, Vermont 05602-0053

Resident Inspector  
U. S. Nuclear Regulatory Commission  
Post Office Box 176  
Vernon, Vermont 05354

Vermont Public Interest  
Research Group, Inc.  
43 State Street  
Montpelier, Vermont 05602

Thomas A. Murley  
Regional Administrator  
Region I Office  
U. S. Nuclear Regulatory Commission  
631 Park Avenue  
King of Prussia, Pennsylvania 19406