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Docket No. 50-271

Mr. J. B. Sinclair
Licensing Engineer
Vermont Yankee Nuclear Power
Corporation
1671 Worcester Road
Framingham, Massachusetts 01701

DEC 10 1982

Dear Mr. Sinclair:

SUBJECT: OPERABILITY OF CONTAINMENT PURGE AND VENT VALVES

Re: Vermont Yankee Nuclear Power Station

We have reviewed your letters dated March 26, and June 22, 1982 dealing with operability of containment purge and vent valves, and find that additional information is needed in order to complete our review.

We understand from discussions with your representatives that a seismic reanalysis, which will include purge and vent valves, is in progress and will be complete by July 1983.

Please provide the information listed in the enclosure to this letter within 90 days of the date of receipt of this letter. If you have any questions please contact the assigned Project Manager.

The request for information contained in this letter affects fewer than ten respondents; therefore OMB clearance is not required under P.L. 96-511.

Sincerely,

Original signed by
D. B. Vassallo

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

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Enclosure:
As stated

cc w/enclosure
See next page

OFFICE	DL:ORB#2 SNorris	DL:ORB#2 VRooney:pob:MC	DL:ORB#2 DVassallo	ECB:DE MHaughey		
SURNAME	TZ/9/82	TZ/14/82	TZ/14/82	TZ/10/82		
DATE						

Mr. J. B. Sinclair

cc:

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Request for Additional Information
Vermont Yankee Nuclear Power Station
Containment Purge Valve Operability

1. Qualification for the 18", 8" and 6" purge and vent valves at Vermont Yankee considered the DBA LOCA pressure but not seismic loads. Provide a stress table of critical elements under the seismic loads. This table should include stresses and allowable stresses for each critical element. Qualification should be performed for seismic loading in combination with the LOCA loads. Critical elements for the combined loads need to be determined as they may vary from the critical elements determined under either load independently.
2. The calculated shaft stress submitted was 461 psi for the 8" valve. This value appears too low especially considering the shaft stresses for the 18" and 6" valves were 4250 psi and 3915 psi respectively. Confirm the correct torque value for the 8" valve.
3. Detailed calculations were not submitted for the valve stress analysis. Stress analysis should use proper torque values which are determined by adding the bearing torque and the dynamic torque together. Confirm that these loads have been properly combined for the Vermont Yankee purge valves.