

October 5, 1982

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Docket No. 50-245
LS05-82-10-004

Mr. W. G. Council, Vice President
Nuclear Engineering and Operations
Northeast Nuclear Energy Company
Post Office Box 270
Hartford, Connecticut 06101

Dear Mr. Council:

SUBJECT: CONTAINMENT PURGE AND VENT VALVES OPERABILITY (B-24)

Millstone Nuclear Power Station, Unit No. 1

We are continuing our review of the captioned issue and have determined that additional information is needed before we can complete our review. Accordingly, you are requested to respond to the enclosure hereto within 90 days of your receipt of this letter.

Sincerely,

Original signed by

Dennis M. Crutchfield, Chief
Operating Reactors Branch #5
Division of Licensing

Enclosure:
Request for Additional
Information

cc w/enclosure:
See next page

SEO1
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OFFICE	DL: CRB #5	DL: ORB #5					
SURNAME	JShea:cc	DCrutchfield					
DATE	10/15/82	10/15/82					

October 5, 1982

cc

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ATTN: Regional Radiation Representative
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Boston, Massachusetts 02203

Request for Additional Information
Millstone Nuclear Power Station, Unit 1
Containment Purge and Vent Valve Operability

1. The qualification documentation submitted for the Millstone 1 purge and vent valves was for LOCA pressure loads on the valves. The Northeast Utilities (NU) submittal of June 30, 1981 indicated the valve operators are not seismically qualified. The "Guidelines for Demonstration of Operability of Purge and Vent Valves" (sent from D. Eisenhut to all licensees September 27, 1979) includes seismic loading as one of the dynamic loads to be addressed in qualifying these valves. The seismic loads should be combined with the LOCA loads according to the methods presented in NUREG-0484, Rev. 1, "Methodology for Combining Dynamic Responses" in the analysis used to show operability of the purge and vent valves. Critical elements for the combined loads need to be determined as they may vary from the critical elements under either load imposed independently.

Provide a stress table of the critical elements under combined loads along with the allowable stresses and the basis for the allowables.

2. The June 30, 1981 response from Northeast Utilities (NU) indicated the solenoid valves were to be replaced by environmentally qualified valves by June 30, 1982. Confirm environmentally qualified solenoid valves have been installed and explain any effect this will have on valve operability (example: varying the size of the bleed port will change the closure time and seat impact). Is the air supply to the solenoid valves filtered and dried?
3. Not all valve parts were considered in the NU submittals. NU should confirm an evaluation has been done to confirm the valve shafts or the valve shaft disc pins are the critical components for these valves under accident loads.
4. If these valves are equipped with handwheels describe what procedures or automatic mechanisms are available on these valves to assure these valves will not be left in a manual mode following manual operation.
5. In discussions with Allis Chalmers in the spring of 1981 it was brought to the staff's attention that a particular orientation of pipe elbow upstream with respect to valve shaft downstream was deleted because of the undesirable effects this orientation had on the valve torques. No reference to this orientation was made in the test report. A number of plants using this report were therefore not informed of this undesirable orientation unless it was specifically identified to Allis Chalmers.

Northeast Utilities should confirm that none of the purge and vent valves at Unit 1 use this orientation. (This determination should be made independent of how sharp a radius bend the elbow has). The orientation is defined as that shown in Appendix III, Figure 10 in VER-0209 (test report) with the valve opening in the reverse direction as what is shown in the figure.