

January 5, 1984

SBN- 608  
T.F. B7.1.2

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

Attention: Mr. George W. Knighton, Chief  
Licensing Branch No. 3  
Division of Licensing

References: (a) Construction Permits CPPR-135 and CPPR-136, Docket  
Nos. 50-443 and 50-444  
(b) USNRC Letter, dated May 5, 1983, "Environmental  
Qualification of Electric and Mechanical Equipment",  
G. W. Knighton to R. J. Harrison

Subject: Mechanical Equipment Qualification

Dear Sir:

In the referenced letter you summarized the requirements for environmental qualification of electric and mechanical equipment. For mechanical equipment you stated the following:

"In order to demonstrate compliance with General Design Criterion 4 of Appendix A to 10CFR Part 50 for the qualification of mechanical equipment, the staff requires that a review and evaluation be performed that includes the following:

1. Identification of safety-related mechanical equipment located in harsh environment areas, including required operating times.
2. Identification of the nonmetallic subcomponents of this equipment.
3. Identification of the environmental conditions this equipment must be qualified for.
4. Identification of nonmetallic material capabilities.
5. Evaluation of environmental effects."

United States Nuclear Regulatory Commission  
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January 5, 1984  
Page 2

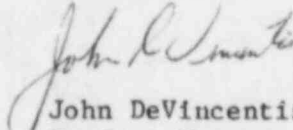
You also indicated in the referenced letter that the "staff will select approximately three items of mechanical equipment for which documentation of their environmental qualification should be sent to NRC headquarters for review, along with the results of the review performed for all safety-related mechanical equipment located in harsh environment areas".

To allow you to make your selection of the three items of mechanical equipment for which documentation of their environmental qualification will be requested, we have enclosed a qualification status listing of the active mechanical components which are located in harsh plant environments.

When you have apprised us of your selection, we will submit those Mechanical Equipment Qualification files, including the detailed Mechanical Equipment Qualification Program description, for your review.

Very truly yours,

YANKEE ATOMIC ELECTRIC COMPANY

  
John DeVincentis  
Project Manager

Enclosure

cc: Atomic Safety and Licensing Board Service List

PUBLIC SERVICE OF NEW HAMPSHIRE  
SEABROOK STATION

ENVIRONMENTAL QUALIFICATION OF MECHANICAL EQUIPMENT  
MEQ FILE STATUS

(Sheet 1 of 4)

MEQ File	Equipment Description	EQ Status	Comments
45-2-1	Buffalo Forge Fans	Qualified	None
172-1-1	Thomas Vacuum Pump	Qualified	None
173-1-1	CCI Globe Valves	Qualified	None
173-5-1	Masoneilan Butterfly Valves	Qualified	None
225-3-1	Pacific Air Dampers	Qualified	None
236-11-1	AWV Dampers (supplied by CVI)	Open	Equipment contains critical materials sensitive to accident temperature and radiation conditions.
236-11-2	CVI Fans	Qualified	None
236-11-3	Twin Cities Fans (supplied by CVI)	Open	Materials of construction not yet identified.

PUBLIC SERVICE OF NEW HAMPSHIRE  
SEABROOK STATION

ENVIRONMENTAL QUALIFICATION OF MECHANICAL EQUIPMENT  
MEQ FILE STATUS

(Sheet 2 of 4)

MEQ File	Equipment Description	EQ Status	Comments
238-3-1	B-W CBS Pumps	Open	Components in pump end pump coupling not capable of withstanding accident radiation condition.
238-5-1	I-R PCCW Pumps	Qualified	None
238-15-1	B-W SFP Pumps	Qualified	None
238-34-1	B-W Thermal Barrier Cooling Pumps	Open	Manufacturer to forward materials of construction by January, 1984.
248-5-1	Fisher Butterfly Valve	Qualified	None
248-31-1	Crosby Main Steam Safety Valves	Qualified	None
248-36-1	Borg-Warner FWIVs	Maintain	Hydraulic fluid to be examined and changed every 2 years and examined when open time exceeds 5 minutes.
248-37-1	Velan Check Valves	Qualified	None
248-37-2	Velan Gate Valves	Qualified	None
248-37-3	Velan Globe Valves	Qualified	None

PUBLIC SERVICE OF NEW HAMPSHIRE  
SEABROOK STATION

ENVIRONMENTAL QUALIFICATION OF MECHANICAL EQUIPMENT  
MEQ FILE STATUS

(Sheet 3 of 4)

MEQ File	Equipment Description	EQ Status	Comments
248-37-4	With Injar Operators Velan Globe Valves	Qualified	None
248-41-1	Walworth Check Valves	Qualified	None
248-41-2	Aloyco Gate Valves	Qualified	None
248-45-1	Posi-Seal Butterfly Valves	Qualified/Maintain	CC-V-137, -145, -266, -272 require seal changeout every 25 years.
248-65-1	Rockwell MSIVs	Maintain	Actuator to be maintained per Rockwell Instruction Manual RAL-5193, Appendix A (FP-23126-3).
522-1-1	Buffalo Forge Cooling Units	Qualified	
NSS-205-1	Pacific Pumps Charging Pumps	Open	Speed increaser gear assembly and pump couplings not capable of withstanding accident radiation conditions.
NSS-205-2	I-R RHR Pumps	Qualified	None
NSS-205-3	Pacific Pumps Safety Injection Pumps	Open	Pump coupling not capable of withstanding accident radiation conditions.
NSS-220-1	Fisher Butterfly Valves	Open	Valve assembly contains a teflon bushing sensitive to accident radiation conditions

PUBLIC SERVICE OF NEW HAMPSHIRE  
SEABROOK STATION

ENVIRONMENTAL QUALIFICATION OF MECHANICAL EQUIPMENT  
MEQ FILE STATUS

(Sheet 4 of 4)

MEQ File	Equipment Description	EQ Status	Comments
NSS-220-2	<u>W</u> Check Valves	Qualified	None
NSS-220-3	<u>W</u> Gate Valves	Qualified	None
NSS-220-4	Copes-Vulcan Globe Valves	Qualified	None
NSS-220-5	Crosby Safety/Relief Valves	Qualified	None
NSS-220-6	Velan Globe Valves	Qualified	None
NSS-220-7	Garrett Pressurizer PORVs	Qualified	None

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