



Public Service of New Hampshire

New Hampshire Yankee Division

November 19, 1985

SBN- 896
T.F. Q2.2.2

United States Nuclear Regulatory Commission
Region I
631 Park Avenue
King of Prussia, PA 19406

Attention: Mr. Richard W. Starostecki, Director
Division of Project and Resident Programs

References: (a) Construction Permits CPPR-135 and CPPR-136,
Docket Nos. 50-443 and 50-444

(b) Telecon of October 17, 1985, D. E. Groves
(YAEC) / M. A. Chiasson (NHY) to A. Cerne
(NRC Resident Inspector)

Subject: Interim 10CFR50.55(e): Manual Handwheel Operator on
Dampers Supplied by Pacific Air Products Company
(CDR 85-00-16)

Dear Sir:

On October 17, 1985, we reported a potential 10CFR50.55(e) deficiency, Reference (b), regarding manual handwheel operators on safety-related dampers supplied by Pacific Air Products Company. We have completed our evaluation and have determined that the deficiency is reportable.

Description of Deficiency

Several safety-related dampers at Seabrook Station were furnished by Pacific Air Products Company with Contromatics actuators. These actuators were provided with manual operators consisting of a handwheel mounted on a threaded rod which screws into an extended threaded travel stop. Although the primary mode of actuation is pneumatic, manual positioning of the damper with the handwheel operator will override pneumatic actuation.

During the testing phase of the pertinent HVAC systems, these handwheel operators were used occasionally to cycle their respective dampers in the absence of pressurized air. In several cases, the threads in the extended travel stop fouled causing the operator and damper to seize.

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Safety Implications

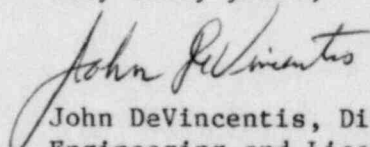
This handwheel operator design deficiency could have affected plant safety in only one case where system operation depends on the operators to perform a safety-related function. This case involves the isolation dampers on the remote makeup air intake lines for the control room. Both dampers automatically isolate their respective intakes upon a high radiation signal from either intake. The damper isolating the intake which did not generate the high radiation signal must then be manually opened with the handwheel operator. If the operator and damper were to seize in a closed or partially closed position, control room habitability may be affected.

Corrective Action

Modifications recommended by Pacific Air Products to preclude operator/damper seizure during normal damper cycling are currently being implemented. We will inform Region I when these modifications are complete.

This letter is being filed pursuant to the interim reporting provisions of 10CFR50.55(e)(3).

Very truly yours,



John DeVincentis, Director
Engineering and Licensing

cc: Atomic Safety and Licensing Board Service List

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