NRC PDR

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

November 17, 1979

Docket No. 50-271

Mr. Robert H. Groce
Licensing Engineer
Yankee Atomic Electric Company
20 Turnpike Road
Westboro, Massachusetts 01581

Dear Mr. Groce:

We are reviewing your submittal dated January 9, 1979 in response to our letter dated November 29, 1978 concerning containment purging. As a result of our review to date, we have determined that the additional systems information requested in the enclosure is necessary in order for us to complete our long term containment purge and venting system safety evaluation. Please provide answers to these questions within 45 days of receipt of this letter.

We have not yet completed our review of the mechanical, electrical and instrumentation aspects of containment purge, but we expect that we may have additional questions for you in these areas.

Sincerely,

Thomas A. Ippolito, Chief
Operating Reactors Branch #3
Division of Operating Reactors

Enclosure:
Request for Additional
Information

cc w/enclosure:
See page 2

90022294

P 8001110680

cc:

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REQUEST FOR ADDITIONAL INFORMATION

FOR CONTAINMENT PURGE SYSTEM AND

CONTAINMENT VENTING SYSTEM FOR

VERMONT YANKEE NUCLEAR POWER PLANT

DOCKET NO. 50-271

1. With regard to the containment purge and venting system, provide the following information:

   a. Discuss the provisions made to ensure that isolation valve closure will not be prevented by debris which could potentially become entrained in the escaping air and steam.

   b. Discuss the provisions made for testing the availability of the isolation function and the leakage rate of the isolation valves, individually, during reactor operation.

   c. Quantify the amount of containment atmosphere released through the purge and vent isolation valves for a spectrum of break sizes during the maximum closure time allowed in your Technical Specifications.

   d. Provide an analysis to demonstrate the acceptability of the provisions made to protect structures and safety-related equipment; e.g., fans, filters, and ductwork, located beyond the purge system isolation valves against loss of function from the environment created by the escaping air and steam.

   e. For the containment purge isolation valves, specify the differential pressure across the valve for which the maximum leak rate occurs. Further, provide test results (e.g., from vendor tests of leakage rate versus valve differential pressure) which support the above information.