NSIC

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

November 5, 1979

Docket No. 50-309

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

Dear Mr. Groce:

We have reviewed your submittal of December 29, 1978, which was supplemented by a telephone discussion on October 19, 1979, regarding the containment purge and vent system at Maine Yankee Atomic Power Plant. We have determined that the additional information identified in the enclosure is necessary to continue our review.

Please provide this information within 30 days of receipt of this letter.

Sincerely,

Morton B. Fairtile for

Robert W. Reid, Chief
Operating Reactors Branch #4
Division of Operating Reactors

Enclosure:
Request for Additional
Information

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cc w/enclosure:
See next page

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cc:
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SAFE POWER FOR MAINE
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Mr. Robert R. Radcliffe
Office of Energy Resources
55 Capitol Street
Augusta, Maine 04330

Enclosure

REQUEST FOR ADDITIONAL INFORMATION FOR CONTAINMENT PURGE SYSTEM AND CONTAINMENT VENTING SYSTEM FOR MAINE YANKEE ATOMIC POWER PLANT DOCKET NO. 50-309

1. Provide a schematic drawing of your containment purge and vent system.

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

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

3. As discussed with your staff (telecon J. Kerrigan and R. Turcott, 10/19/79), the following information should also be provided:

   a. Provide an analysis of the reduction in the containment pressure resulting from the partial loss of containment atmosphere during the accident for ECCS backpressure determination.

   b. Quantify the amount of containment atmosphere released through the purge and vent isolation valves during the maximum closure time allowed in your Technical Specifications.