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

OCT 30 1979

MEMORANDUM FOR: R. Reid, Chief
Operating Reactors Branch #4
Division of Operating Reactors

FROM: G. Lainas, Chief
Plant Systems Branch
Division of Operating Reactors

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION - CONTAINMENT
PURGE SYSTEM - MAINE YANKEE ATOMIC POWER PLANT
(TAC 10215)

REFERENCE: 1. Letter to R. Reid from W. Johnson, "Containment
Purging During Normal Plant Operation," dated
December 29, 1978

2. Letter to A. Schwencer from E. Wood, dated
May 14, 1979

Plant Name: Maine Yankee Atomic Power Plant
Docket No.: 50-309
Project Manager: M. Fairtile
Review Status: Awaiting Information

With regard to the containment purge and vent system at Maine Yankee Atomic Power Plant, the licensee plans to justify unlimited purging (Reference 1). The Plant Systems Branch, Section B, after discussions with the licensee (telecon J. Kerrigan and R. Turcott, October 19, 1979), has prepared the enclosed request for additional information. Section A is continuing their review and will provide questions regarding the electrical and instrumentation aspects of containment purging in January 1980.

G. Lainas, Chief
Plant Systems Branch
Division of Operating Reactors

Enclosure:
As stated

Contacts:
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cc: See next page

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R. Reid

- 2 -

OCT 30 1979

cc w/enclosure:

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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.

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