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Docket No. 50-309

Mr. John H. Garrity, Senior Director
Nuclear Engineering and Licensing
Maine Yankee Atomic Power Company
83 Edison Drive
Augusta, Maine 04336

Dear Mr. Garrity:

Based on our review of the environmental qualification of safety related equipment at Maine Yankee, 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.

The reporting and/or recordkeeping requirements contained in this request affect fewer than ten respondents; therefore, OMB clearance is not required under P.L. 96-511.

Sincerely,

Original signed by
Robert A. Clark

Robert A. Clark, Chief
Operating Reactors Branch #3
Division of Licensing

Enclosure:
As stated

cc: See next page

OFFICE	ORB#3:DL	ORB#3:DL	ORB#3:DL				
SURNAME	PMKreutzer	CNelson/pn	RAClark				
DATE	7/16/82	7/16/82	7/16/82				

cc: E. W. Thurlow, President
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U.S. Environmental Protection Agency
Region I Office
ATTN: Regional Radiation Representative
JFK Federal Building
Boston, Massachusetts 02203

State Planning Officer
Executive Department
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Augusta, Maine 04330

Regional Administrator
Nuclear Regulatory Commission, Region I
Office of Executive Director for Operations
631 Park Avenue
King of Prussia, Pennsylvania 19406

PRESSURE AND TEMPERATURE PROFILES FOR OUTSIDE CONTAINMENT

REQUEST FOR INFORMATION

Provide the basis, assumptions and an analysis of a typical pipe break location (for example, steam tunnel for BWR's or auxiliary feedwater pump room for PWR's) that includes the following information:

1. With respect to the pipe to be broken, provide the following:

   a. Type of fluid (water or steam);

   b. Temperature;

   c. Pressure;

   d. Source of the fluid;

   e. Flow rate (or assumed flow rate);

   f. Pipe internal diameter;

   g. Wetted perimeter of the break (feet);

   h. Total pipe internal volume;

   i. Exit flow area, if the break was not in the pipe, just described above;

   j. Area of flow restriction, if any;

   k. Differential elevation from the source to the pipe break;

   l. Total flow resistance (only if the fluid is water);

   m. Means to stop fluid flow (none, gate valve, globe valve, etc.); and

   n. If item 1.m above is a valve, then the valve's open throat area, full open flow coefficient, valve closure time, and delay time until initiation of valve closure.

2. With respect to the compartments being analyzed, provide the following:

   a. Number of compartment analyzed; and

b. For each compartment:

i. initial temperature
ii. initial pressure
iii. initial humidity
iv. free air volume (cubic feet)
v. number of vents and vent areas (square feet) for each vent; and
vi. minimum pressure to initiate flow to the next compartment (psia).

3. Provide all assumptions used, including but not limited to the:

a. Orifice coefficient for the "end effects" for the discharged fluid; and

b. Fluid expansion factor.