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

August 9, 1979

Docket No. 50-29

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

Dear Mr. Groce:

RE: REQUEST FOR ADDITIONAL INFORMATION
SYSTEMATIC EVALUATION PROGRAM STRUCTURAL TOPICS
YANKEE ROWE NUCLEAR STATION

To continue our review of the Systematic Evaluation Program structural topics, we request that you provide the information described in the enclosure for each of the identified topics.

Your response is requested within 30 days so that we can maintain our review schedule.

Sincerely,

Dennis L. Ziemann

Dennis L. Ziemann, Chief
Operating Reactors Branch #2
Division of Operating Reactors

Enclosure:
Request for Additional
Information

cc w/enclosure:
See next page

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cc
Mr. Lawrence E. Minnick, President
Yankee Atomic Electric Company
20 Turnpike Road
Westboro, Massachusetts 01581

Greenfield Community College
1 College Drive
Greenfield, Massachusetts 01301

K M C Inc.
ATTN: Mr. Richard E. Schaffstall
1747 Pennsylvania Avenue, N. W.
Suite 1050
Washington, D. C. 20006

Enclosure

YANKEE ROWE NUCLEAR STATION

REQUEST FOR ADDITIONAL INFORMATION

STRUCTURAL TOPICS

Additional information is needed for the following structural topics:

III-2 Wind and Tornado Loads

For each safety-related structure, provide:

1. Design basis for wind loading including:
   a. the vertical wind velocity profiles (or maximum wind speed)
   b. gust factor
   c. procedures to transform wind data into design pressure
2. Design basis, if any, for tornado loading including:
   a. maximum rotational wind speed
   b. translational wind speed
   c. pressure drop
   d. radius of maximum rotational wind speed
   e. procedures to transform tornado data into design pressure

III-3.A Effects of High Water Level on Structures

For each safety-related structure:

1. Describe the water loads considered in the original design and the extent to which dynamic effects due to flooding were considered.
2. Clarify the water level for each load combination discussed in response to items 2 of Topic III-7.B.

III-7.B Design Codes, Design Criteria and Load Combinations

For each safety-related structure:

1. List the codes and standards (including edition date) used for design and construction of concrete and steel elements (Vapor containment, internal structures, primary auxiliary building, diesel generator buildings, control room, etc.).

2. Provide the loads, load combinations and acceptance criteria employed for the design.

3. Provide the design and/or actual material properties (fc and fy) used for concrete and steel elements. For concrete, provide the age specified and any admixture used.

4. Provide a copy of the specifications used for design and construction.

5. Provide representative stress levels (compression, tension, and shear) at the critical location of each structure (e.g., at base column of internal structures) for each of the load combinations provided in response to (2) above.

6. Provide the buckling criteria used in the design of the steel containment shell.

III-7.D Containment Structural Integrity Test

Provide a description of the procedures and results of the containment structural integrity test.