

TERA



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

August 1, 1979

Docket No. 50-213

Mr. W. G. Council, Vice President  
Nuclear Engineering and Operations  
Connecticut Yankee Atomic Power Company  
Post Office Box 270  
Hartford, Connecticut 06101

Dear Mr. Council:

RE: HADDAM NECK PLANT  
SYSTEMATIC EVALUATION PROGRAM  
TOPICS - III-2, III-3.A, and III-7.B

To continue our review of the subject topics the additional information described in the enclosure is required. Please provide your response within 30 days of the date of this letter.

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

7909040191

301280

Mr. W. G. Council

- 2 -

August 1, 1979

cc w/enclosure:  
Day, Berry & Howard  
Counselors at Law  
One Constitution Plaza  
Hartford, Connecticut 06103

Superintendent  
Haddam Neck Plant  
RFD #1  
Post Office Box 127E  
East Hampton, Connecticut 064

Mr. James R. Himmelwright  
Northeast Utilities Service Co.  
P. O. Box 270  
Hartford, Connecticut 06101

Russell Library  
119 Broad Street  
Middletown, Connecticut 06451

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

301281

HADDAM NECK PLANT  
REQUEST FOR ADDITIONAL INFORMATION  
STRUCTURAL TOPICS

III-2 Wind and Tornado Loads

For each safety-related structure, provide

1. The procedures to transform wind velocity into design pressure and gust factors.
2. original design basis 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 described in 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 (containment shell, containment internal structures, primary auxiliary building, 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 ( $f_g$  and  $f_i$ ) used for steel and concrete elements. For concrete, provide the age specified and any admixtures 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 of containment internal structures) for each of the load combination provided in response to (2) above.

901262

August 1, 1979