

DEC 12 1975

Docket No. 50-29

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

Gentlemen:

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This refers to your application for a license amendment dated September 25, 1975, relating to your submittal of Proposed Change No. 131. Your proposal involves the replacement of the existing 40 and 26 element spent fuel storage racks with anodized aluminum fixed poison (Boral) curtain racks with reduced center-to-center spacing and a maximum capacity for 285 fuel assemblies. Your proposal also involves the continued use of the existing 110 element rack for storage of fuel having a minimum burnup of 20,000 MWD/MTU.

We have reviewed your submittal and find that we need the additional information identified in the enclosure to this letter to continue our review. The items in the enclosure have been discussed between our staffs on December 9, 1975.

In order to maintain our review schedule we need your response to this request by January 5, 1975.

Sincerely,

Original signed by R. A. Purple

Robert A. Purple, Chief  
Operating Reactors Branch #1  
Division of Reactor Licensing

Enclosure:  
Request for Additional  
Information

ccs: See next page

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cc: Mr. Donald G. Allen, President  
Yankee Atomic Electric Company  
20 Turnpike Road  
Westboro, Massachusetts 01581

Greenfield Public Library  
402 Main Street  
Greenfield, Massachusetts 01581

REQUEST FOR ADDITIONAL INFORMATION  
YANKEE-ROWE NUCLEAR POWER STATION (YANKEE-ROWE)  
DOCKET NO. 50-29

1. Provide a functional description of the spent fuel pool cooling system and identify the spent fuel pool cooling system performance criteria.
2. Provide spent fuel pool cooling system performance calculations (including heat load) to show that the system is capable to maintain the coolant temperature at 130°F, or less, under the worst case spent fuel pool loading conditions.
3. Describe the details of the coolant make up and/or any additional cooling capability that would be available in the event of an assumed spent fuel pool cooling system failure. Include in the description the maximum time of additional cooling availability and the necessary time for hook-up to the additional cooling system, if required.
4. With respect to your description of the new spent fuel storage rack design, confirm that the boral curtain poison parts will not be welded to any storage rack structural components.
5. In connection with your planned use of the existing 110 element rack for storage of fuel having a minimum burnup of 20,000 MWD/MTU, provide the following:
  - a. The results of additional criticality calculations assuming that fresh fuel would be stored in this rack, and
  - b. The precautionary measures, handling procedures and administrative controls that you plan to implement to preclude operator errors that might involve insertion of fuel with less than 20,000 MWD/MTU into the existing 110 element storage rack.
6. Provide an evaluation of accidents assumed to occur while installing the new storage racks in the spent fuel pool. Also, describe your planned precautionary measures to preclude damage to fuel residing in the spent fuel pool during the installation of the new spent fuel storage racks.