

Docket No. 50-29

OCT 8 1975

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

Gentlemen:

This refers to your applications for license amendments dated August 13 and 19, 1975, relating to your submittals of Proposed Change No. 127 and Proposed Change No. 126, respectively. Proposed Change No. 126 involves your planned upgrading of the Yankee-Rowe stack radiation monitoring system. Proposed Change No. 127 involves your planned upgrading of the Yankee-Rowe exhaust air ventilation system, including the installation of provisions for filtering the air before being discharged to the environs.

We have reviewed your submittals 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 October 7, 1975.

In order to maintain our review schedule, we need your response to this request by October 31, 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

cc w/enclosure:  
 See next page

*AP* A-3

OFFICE →	RL:ORB#1	RLORB#1			
SURNAME →	ABurger;dc	RAPurple			
DATE →	10/8/75	10/8/75			

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**POOR ORIGINAL**

REQUEST FOR ADDITIONAL INFORMATION

YANKEE NUCLEAR POWER STATION (YANKEE-ROWE)

DOCKET NO. 50-29

- I. Questions relating to Proposed Change No. 126 submitted August 19, 1975.
  - A. Questions on FHSR (Final Hazards Summary Report) and FSAR (Final Safety Analysis Report)
    1. Provide a P&ID of the Main Plant Stack Radiation Monitoring System. Indicate how the instruments will be aligned with the set of isokinetic probes in use.
    2. Provide the isokinetic probe design flow rates and range. Provide the high and low flow alarm set point for each probe set.
    3. Describe the provisions for measuring flow in the vent stack in order to assure representative sampling.
    4. Relate the sensitivities given for the particulate noble gas and radioiodine detectors to the dose sensitivity guidelines of Regulatory Guide 1.21 and a small fraction of the limits specified in 10 CFR Part 20.
    5. Describe the provisions for sampling and monitoring whenever any portion of the Main Plant Stack Radiation Monitoring System is inoperable.
    6. The noble gas channel sensitivity is proposed to be  $3 \times 10^{-6}$  uCi/cc. Justify the adequacy of this sensitivity for monitoring the average gaseous concentration of  $1.35 \times 10^{-6}$  uCi/cc as stated in FHSR, page 209.8 (Draft).
  - B. Questions on proposed Technical Specifications.
    1. Describe how tritium in gaseous effluents will be monitored.
    2. Describe how alpha radioactivity in gaseous effluents will be monitored.

II. Questions relating to Proposed Change No. 127 submitted August 13, 1975.

A. Questions on FHSR and FSAR

1. Describe how moisture will be controlled to ensure that the relative humidity of the influent stream will not adversely affect the performance of the charcoal adsorption units.
2. Provide a drawing of the Mechanical Equipment Room #3 to show where the exhaust from the Fuel Transfer Pit House, Waste Disposal Building, and Primary Auxiliary Building (PAB) is collected, filtered, and treated by charcoal adsorbers prior to release.
3. Indicate normal and alternate flow direction on the lines shown on Figure 11.3-1.
4. Provide a P&ID of the 23,000 cfm filter (and adsorber) assemblies for the containment purge and the PAB exhaust ventilation systems. Include any bypass lines.