

DEC 11 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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During the recent Core XI-XII refueling outage at Yankee-Rowe, you performed eddy current testing of tubes in steam generators Nos. 1 and 4. Your letter dated November 21, 1975 (from Mr. H. B. Autio, Superintendent, to Mr. J. P. O'Reilly, Director, Region I Office of Inspection and Enforcement), transmitted a Licensee Event Report relating to Reportable Occurrence 50-29/75-10 and the eddy current testing results. You reported that indications were found on tubes in both steam generators (Units 1 and 4) in excess of the acceptance limits in Regulatory Guide 1.83, dated June 1974. As provided for in Section 7.d. of the Guide, we have reviewed the eddy current test results based on the particular features of the Yankee-Rowe steam generators, viz. stainless steel tubes, the thicker tube wall, and the use of all volatile chemistry. From this review, we have concluded that the steam generator tubes are in an acceptable condition for continued safe operation of Yankee-Rowe with Core XII.

To further evaluate your inservice inspection program and water chemistry control of the Yankee-Rowe steam generators, we request that you provide to us within 30 days from the date of this letter the information identified in the attachment to this letter.

Sincerely,

Original signed by:  
Robert A. Purple

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

THIS DOCUMENT CONTAINS  
POOR QUALITY PAGES

Enclosure:  
Request for Additional Information

bcc: JPO'Reilly, OI&E, Region I  
KVSeifrit, OI&E, Headquarters, w/enc

cc w/enclosure:  
See next page

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OFFICE ▶	RL:ORB#1	RL:ORB#1			
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Yankee Atomic Electric Company

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DEC 11 1975

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 NUCLEAR POWER STATION (YANKEE-ROWE)

DOCKET NO. 50-29

1. Provide the results of all steam generator tube inspections prior to conversion from a phosphate treatment to all volatile treatment (AVT), and the results of all steam generator tube inspections during AVT operation. This should include:
  - a. Approximate date of inspection and reason for inspection
  - b. Number of tubes inspected in each steam generator and identification of each tube inspected by row and column.
  - c. List of all tubes with eddy current indications by percent loss of wall thickness.
  - d. Identification of all tubes plugged and the tube plugging limit used.
2. Describe the secondary water chemistry for six months prior to termination of phosphate treatment and from the onset of transition to AVT to the present. This should include:
  - a. Normal specifications for steady state limits (including range of Na/PO<sub>4</sub> ratio for phosphate treatment.
  - b. Transient limits.
  - c. Description of procedures implemented for transition from phosphate to AVT (indicating any sludge lancing performed and quantity of material removed).
  - d. A graph or plot of the secondary water chemistry showing the following as a function of time for each steam generator:
    - (1) Phosphate concentration;
    - (2) Sodium concentration;
    - (3) pH;
    - (4) Conductivity in  $\mu\text{mho/cm}$ , applicable only for AVT;
    - (5) Hydroxide concentration, applicable only for AVT;
    - (6) Weight of phosphate removed, applicable only for AVT.