

YANKEE ATOMIC ELECTRIC COMPANY

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2.C.2.1

FYR 81-50

March 31, 1981

United States Nuclear Regulatory Commission
Washington, D. C. 20555

Attention: Mr. Darrell G. Eisenhut, Director
Division of Licensing

Reference: (a) License No. DPR-3 (Docket NO. 50-29)
(b) USNRC Letter, D. G. Eisenhut to all Licensees of Operating
Plants, dated October 31, 1980 (NUREG-0737)
(c) YAEC Letter to USNRC, dated December 15, 1980 (WYR 80-136)

Subject: TMI Action Plan Items II.E.1.2 and II.E.4.2

Dear Sir:

This letter transmits additional information required by NUREG-0737, Reference (b). The information is contained in the Enclosure and is provided at this time as discussed in Reference (c). The information discusses the following TMI Action Plan items:

Item II.E.1.2 - Auxiliary Feedwater System Flow Indication

Item II.E.4.2 - Containment Isolation Dependability

We trust you will find this information satisfactory, however, if you have any questions please contact us.

Very truly yours,

YANKEE ATOMIC ELECTRIC COMPANY

J. A. Kay

J. A. Kay
Senior Engineer - Licensing

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Enclosure

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Enclosure
Yankee Atomic Electric Company

Section II.E.1.2 Part 2 Auxiliary Feedwater System Flowrate Indication

Clarification Subsection No. 2:

- (a) One Controlotron Ultrasonic Flowmeter for the measurement of emergency feedwater flow rate, Model 241-1 1/2 CS, 80-A was attached to each emergency boiler feedwater line upstream of the connection to the main feedwater lines. Steam generator level indicators are used as a second indication of plant conditions.
- (b)(i) The fully implemented flow indication system is environmentally qualified for the area in which it is used. The units are designated suitable for use in a -20°F to +110°F environment.
- (ii) The flow indication system is powered from the Vital Bus, a highly reliable battery backed power source.
- (iii) The implemented flow indicating systems have provisions for periodic testing and local fault alarm signaling.
- (iv) The implementation and purchasing of this equipment was part of the plant Quality Assurance Program.
- (v) A continuous display of flow rate is available on the Main Control Board (MCB) as well as a local indication.

The displays which were added to the main control board were located with consideration for the operator's best perception and for minimal ambiguity.

- (a) The flow indication derived by this system is located in a section of the control board where the information can best be effectively displayed during both normal and abnormal conditions.
- (b) The specifics of this change has been incorporated into plant emergency procedures.
- (c) The Plant Operators were instructed on this instrumentation.

Documentation:

Supporting information including system design description, logic diagrams, electrical schematics, piping and instrument diagnosis test procedures and technical specifications are available for NRC review at the Yankee Rowe site.

Section II.E.4.2 Containment Isolation Dependability

Position No. 5

The Technical Specifications for the CIS trip setpoint at Yankee Rowe is 5.0 psig. The actual setpoint for calibration is lower at 4.5 \pm .3 psig to insure that the 5.0 psig specification is met at all times. Yankee Rowe, unlike most plants, does not have a higher pressure which isolates essential valves. At Yankee Rowe all containment isolation valves, both essential and non-essential, isolate at the CIS setpoint of \leq 5.0 psig.

In addition, the Technical Specifications of Section 3.6.1.4 and 3.6.1.7 limit the operating normal containment pressure to between 0.75 and 3.0 psig. This is to accommodate the continuous leak monitoring system utilized to verify containment integrity during plant operation. Therefore, the range between the normal operating pressure and the trip setpoint allowing for downward drift of the CIS pressure switches is a very narrow band. A tech spec lower than 5.0 psig would be unduly restrictive.