Regulatory Docket File

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YANKEE ATOMIC ELECTRIC COMPANY



20 Turnpike Road Westborough, Massachusetts 01581

April 21, 1976

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

Attention: Office of Nuclear Reactor Regulation

Reference: License No. DPR-3 (Docket No. 50-29)

Dear Sir:

Pursuant to Section 50-59 of the Commission's Rules and Regulations Yankee Atomic Electric Company hereby proposes the following modification to Appendix A to the Technical Specifications.

PROPOSED CHANGE: We propose adding a pulsation dampener on the three (3) charging pump discharge header. The design and operation of the Charging and Volume Control System is described in Section 203 of the Facility. Hazards Summary Report (FHSP).

We have revised page 203:1 and drawing No. 646J430 (inserted after page 203:1) and added page 203:1A to incorporate the proposed change. Copies of the revised pages and the drawing are attached.

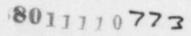
REASON FOR CHANGE: The installation of the pulsation dampener will hopefully eliminate vibrations now being experienced o. the discharge header.

SAFETY CONSIDERATIONS: The Proposed Change does not present any signicant hazards consideration not described or implied in the reference license as amended.

The proposed change has been reviewed by the Nuclear Safety Audit and Review Committee.

SCHEDULE OF CHANGE: The change will be effected following Commission approval.

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United States Nuclear Regulatory Commission Attn: Office of Nuclear Reactor Regulation April 21, 1976 Page Two

We trust you will find this information satisfactory; however, should you desire additional information, please do not hesitate to contact us.

Very truly yours,

YANKEE ATOMIC ELECTRIC COMPANY

D. E. Vandenburgh Vice President

COMMONWEALTH OF MASSACHUSETTS)

)ss.

COUNTY OF WORCESTER

Then personally appeared before me, D. E. Vandenburgh, who being duly sworn, did state that he is Vice President of Yankee Atomic Electric Company, that he is duly authorized to execute and file the foregoing request in the name and on the behalf of Yankee Atomic Electric Company, and that the statements therein are true to the best of his knowledge and belief.

Armand R. Soucy

Notary Public

My Commission Expires September 9, 1977

203 CHARGING AND VOLUME CONTROL SYSTEM

General

The charging and volume control system is an auxiliary system in the primary plant and is designed to accomplish the following major functions:

Water charging to the main coolant system

Water removal from the main coolant system

Boric acid addition and removal for control purposes

Quenching of relief and safety valve discharge

Pressurizer vessel cooling and decontamination

Noncondensible gas removal

Chemical addition

Water charging to auxiliary system and equipment

The arrangement of the charging and volume control system is shown on drawing No. 646-J-430. It contains the following major items of equipment, designed in accordance with the following codes:

Equipment - ASME Section VIII - 1956 - Unfired Pressure Vessels

Piping - ASA 31.1 - 1955 - Code for Pressure Piping, Sections 1 and 6

Valves, Fittings - ASA B16.5 - 1953 - Code for Steel Piping and Flanged Fittings

High Pressure Charging Pumps

Three motor driven positive displacement charging pumps are provided in the charging and volume control system. The capacity of each pump is approximately 33 gpm, when operating against a discharge head of 2,100 psi gage. Two of the pumps serve as a spare for the other, and they can be operated singly or simultaneously, if required. Any pump can be isolated from the system for repairs. Two of the pumps are driven through variable speed fluid couplings, so that their flow can be controlled between 11 and 33 gpm. Pump No. 3 may be used in conjunction with the loop fill and chemical injection line to accomplish charging to any isolated loop while one or both of the other charging pumps is servicing the reactor vessel portion of the main coolant system. All of the high pressure charging pumps are provided with a pressure relief valve.

Pulsation Dampener

A homogeneous chrome moly pulsation dampener is installed on the discharge of Number 3 charging pump. It serves to reduce the pressure variation created by the variable speed pump and is employed to reduce fatigue stressing. The dampener basic operation consist of absorbing the potential energy of the pressure shock by the compression of a bladder precharged with nitrogen.

Feed and Bleed Heat Exchanger

The feed and bleed heat exchanger consists of a set of four small individual heat exchangers connected in series, which cool the bleed before it is reduced in pressure. Multiple exchangers are employed in order to reduce the size of metal parts and the corresponding high thermal stresses that may occur during severe thermal transient operation. The bleed flows through the tubes while the feed is passed through the shell side, thus recovering some of the heat otherwise lost in a bleeding process.

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cc: NRC PDR

Local PDR

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Receptionist

Principal Staff Participants

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