

YANKEE ATOMIC ELECTRIC COMPANY



20 TURNPIKE ROAD, WESTBORO, MASSACHUSETTS 01581
TELEPHONE 617 366-9011

August 31, 1972

United States Atomic Energy Commission
Washington, D. C. 20545

Attention: Directorate of Licensing

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

Dear Sirs:

On April 14, 1972 the Atomic Energy Commission approved Change No. 97. Included in this change was a modification to the low main coolant flow trip circuitry. The modification included changing the main coolant flow sensing initiating signal from differential pressure across the steam generator to undercurrent or overcurrent on the main coolant pump motors. The Technical Specifications require that all conditions including low main coolant flow that cause reactor scram also cause a turbine trip.

The omission of this portion of the modification was discovered as a result of a routine study conducted following a reactor scram and turbine trip. On Sunday, August 27, 1972, a severe local thunderstorm caused actuation of the undercurrent relays on main coolant loop numbers 2 and 3 which resulted in a reactor scram and turbine trip. Upon completion of a complete system check out and determination as to the cause of the scram and trip, the plant was returned to service.

Subsequently, a detailed sequence of events study (conducted following all scrams and trips) revealed that the turbine trip was not initiated by the low main coolant flow trip signal that scrambled the reactor. Any one of several automatic signals or the immediate action of the operator by manually reaffirming reactor scram and turbine trip could have caused the resulting turbine trip within seconds after the reactor scram.

Upon completion of the detailed sequence study, it was discovered that during engineering of the low main coolant flow trip circuitry, the turbine trip portion of Proposed Change No. 96 was inadvertently omitted. Therefore, the plant prepared a Plant Design Change Request to correct the omission. The Plant Design Change Request was reviewed and approved by Westboro Nuclear Services Division Engineering and Operations Departments. Material procurement and the preparation of repair procedures were also initiated immediately.

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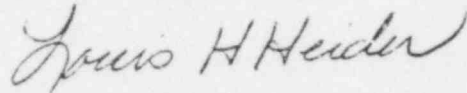
The Nuclear Safety and Audit Review Committee Chairman was informed of the omission and the proposed corrective action. Upon contacting a majority of his Committee, the recommended corrective actions were approved.

On Wednesday, August 30, 1972, the plant was removed from service, the approved modification was completed and preoperationally tested in accordance with written approved procedures.

We trust you will find this information complete and satisfactory; however, should you desire additional information feel free to contact us.

Very truly yours,

YANKEE ATOMIC ELECTRIC COMPANY



Louis H. Heider
Manager of Operations

GCA/pmw

cc: James O'Reilly

FROM: Yankee Atomic Elec. Co. Westboro, Mass. 01581 Louis H. Heider		DATE OF DOC: 8-31-72	DATE REC'D 9-5-72	LTR X	MEMO	RPT	OTHER
TO:		ORIG 1 signed	CC 39	OTHER	SENT AEC PDR ✓ SENT LOCAL PDR		
DRL CLASS: U PROP INFO		INPUT	NO CYS REC'D 40	DOCKET NO: 50-29			

DESCRIPTION: Ltr rpt a prob m on 8-27-72 when a local thunderstorm cause actuation of the under-current relays on main coolant loop numbers 2 & 3 which resulted in a reactor scram & turbine trip.....

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PLANT NAMES: YAEC

ENCLOSURES:

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ACKNOWLEDGED

FOR ACTION/INFORMATION DL 9-5-72

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