

DOCKET NO. 50-29

HAZARDS ANALYSIS BY THE RESEARCH AND POWER REACTOR SAFETY BRANCH

DIVISION OF LICENSING AND REGULATION

IN THE MATTER OF

YANKEE ATOMIC ELECTRIC COMPANY

PROPOSED CHANGE NO. 7

Pursuant to the provisions of paragraph 3.A. of License No. DPR-3, as amended, Yankee Atomic Electric Company in Proposed Change No. 7, dated May 8, 1961, requested authorization to install the control circuitry necessary to initiate a trip of the boiler feed pumps in the event of a scram when the reactor is operating at a power level above 15 MW electric.

A loss of load accompanied by an immediate reactor scram results in a reduction in the temperature of the primary system. The effect of this temperature reduction is to decrease the shutdown margin, which is particularly significant at the beginning of core life when this margin is at a minimum. The immediate shutdown of the boiler feed pumps as the reactor scrams results in a smaller temperature reduction of the primary system, thereby preserving an adequate shutdown margin even at the beginning of core life.

Based on our review of the Proposed Change, we have concluded that it should contribute to safer operation of the facility and that it does not present significant hazards considerations not described or implicit in the license application. We have further concluded that there is reasonable assurance that the health and safety of the public will not be endangered by operation of the facility as proposed.

Edson G. Case, Chief  
Research and Power Reactor Safety Branch  
Division of Licensing and Regulation

Date: MAY 25 1961

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