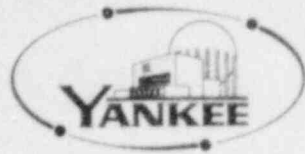


# YANKEE ATOMIC ELECTRIC COMPANY



1671 Worcester Road, Framingham, Massachusetts 01701

2.C.15.1  
FYR 81-52

March 26, 1981

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

Attention: Office of Nuclear Reactor Regulation

References: (a) License No. DPR-3 (Docket No. 50-29)  
(b) YAEC letter to USNRC, dated September 8, 1978 (WYR 78-79)  
(c) YAEC Letter to USNRC, dated December 21, 1979 (WYR 79-160)  
(d) YAEC Letter to USNRC, dated July 8, 1980 (WYR 80-81)

Subject: Core XV Refueling

Dear Sir:

Pursuant to Section 50.59 of the Commission's Rules and Regulations, the Yankee Atomic Electric Company hereby requests the authorization to make the following changes.

PROPOSED CHANGE: Reference is made to the Technical Specifications and "Yankee Nuclear Power Station Core XIV Performance Analysis (Reference (b)) of License No. DPR-3.

1. We propose to refuel the reactor for Core XV operation by replacing 36 fuel assemblies.
2. Modifications, implemented in accordance with 10 CFR 50.59(a), will be made to (1) provide automatic quick closure of the four main steam line non-return valves, and (2) upgrade the existing emergency feedwater system capabilities by adding two full capacity motor driven pumps.
3. We propose to modify the Technical Specifications to accommodate the above changes. The proposed Technical Specification changes are given in Attachment A.

REASON FOR CHANGE: In support of Core XV refueling, the following Technical Specification changes are necessary (1) to revise safety limit curves to conservatively bound both fresh and recycled fuel assemblies as well as conservatively bound future core characteristics in an effort to eliminate future Technical Specification changes in this area, (2) to revise the Keff (Keff < .96) for operation in Modes 4 and 5 in consideration of boron dilution events, (3) to incorporate the cycle dependent physics characteristics, (4) to increase the shutdown margin requirements for Modes 1, 2, and 3 in consideration of main steam line rupture (MSLR) events, (5) to modify rod insertion restrictions in consideration of MSLR events and control rod ejection events, and (6) to provide Core XV LOCA limits.

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