Public Service
Electric and Gas
Company

Richard A. Uderitz
Vice President
Nuclear

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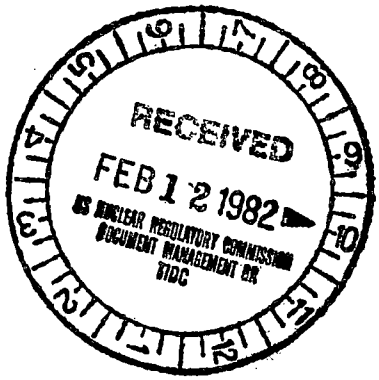
Ref. LCR 81-22

February 8, 1982



Director of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Attention: Mr. Steven Varga, Chief
Operations Reactors Branch #1
Division of Licensing

Gentlemen:

REQUEST FOR AMENDMENT
FACILITY OPERATING LICENSE DPR-75
UNIT NO. 2
SALEM GENERATING STATION
DOCKET NO. 50-311

In accordance with the Atomic Energy Act of 1954, as amended and the regulations thereunder, we hereby transmit copies of our request for amendment of the Facility Operating License DPR-75 for Salem Generating Station, Unit No. 2.

This request consists of proposed changes to the Safety Technical Specifications (Appendix A) involving the Power Distribution Limits section. These exact changes were incorporated in the Salem Unit No. 1 license as part of Amendment 30.

These changes involve a single safety issue and are deemed not to involve a significant safety hazards consideration. Therefore, it is determined to be a Class III amendment as defined by 10CFR170.22 and a check for the amount of $4,000 is enclosed.

This submittal includes three (3) signed originals and forty (40) copies.

Very truly yours,

A001 S/1 w/check $4,000

Ref. LCR 81-22

STATE OF NEW JERSEY)
) SS:
COUNTY OF ESSEX)

RICHARD A. UDERITZ, being duly sworn according to law deposes and says:

I am a Vice President of Public Service Electric and Gas Company, and as such, I signed the request for change to FACILITY OPERATING LICENSE NO. DPR-75.

The matters set forth in said change request are true to the best of my knowledge, information, and belief.

RICHARD A. UDERITZ

Subscribed and sworn to before me

this 8th day of February, 1982

Notary Public of New Jersey

My Commission expires on Oct. 1, 1983

PROPOSED CHANGE
AXIAL FLUX DIFFERENCE
TECHNICAL SPECIFICATION
SALEM UNIT NO. 2

Description of Change

Change the axial flux difference target band to +6, -9% about the target flux difference.

Reason for Change

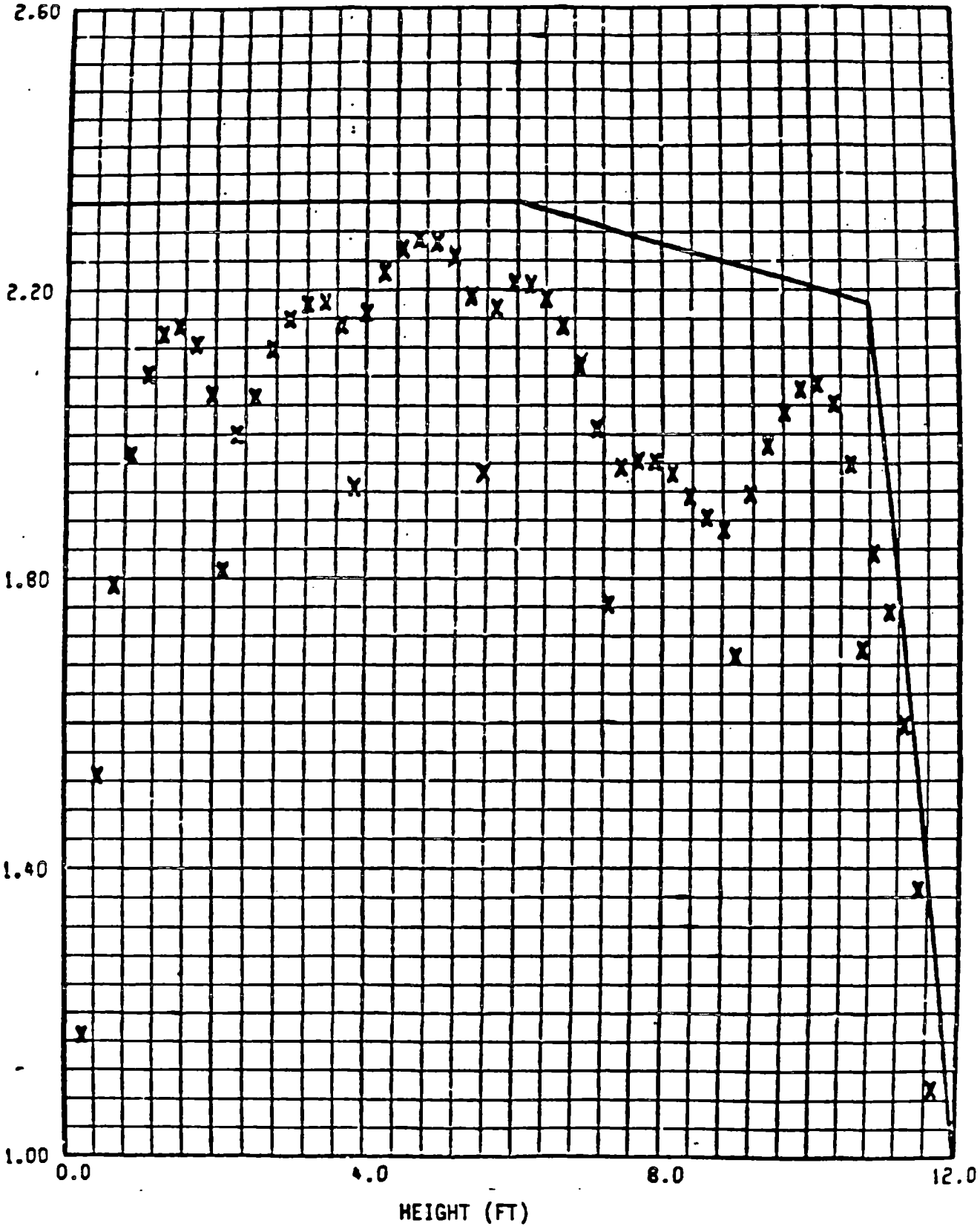
Increased flexibility for operating the unit under Constant Axial Offset Control (CAOC), especially during power change maneuvers.

Safety Evaluation

An analysis of total peaking factor versus core height for normal plant operation has been performed for Salem Unit 2 cycle 1. The bases for the analyses included CAOC with +6, -9%ΔI control band and that the limit on F_{xy} at fractional thermal power was modified to include a multiplier change from 0.2 to 0.3. The power peaking calulations were performed using the 18 case analysis discussed in the "Westinghouse Reload Safety Evaluation Methodolgy", WCAP9273, and documented in a Westinghouse letter from C. Eicheldinger to D. B. Vassallo of the NRC (NS-CE-687 dated July 16, 1975). NRC approval to use the 18 case analysis for Δ I bandwidening was given in a letter from D. B. Vassallo to C. Eicheldinger, dated April 15, 1976. The results of these calculations are shown in figure 1. It can be seen that F_{xy} x Power satisfied the generic FAC boundry with the +6, -9%ΔI target band and the revised multiplier on the F_{xy} limit at fractional thermal power. Therefore, the peaking factor and DNBR criteria are met with margin for the +6, -9%ΔI band and revised F_{xy} limit at fractional thermal power.

FIGURE 1

Salem Unit 2 Cycle 1
Mode A Only
(18 Case FAC Analysis)



KEY

——— FAC Boundary Limit

x Calculated values