

LICENSEE EVENT REPORT

CONTROL BLOCK:

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

1 N Y I P S 3 2 0 0 - 0 0 0 0 0 0 - 0 0 0 3 4 1 1 1 1 4 5

1 L 6 0 5 0 0 0 2 8 6 7 1 0 1 4 7 8 8 1 1 0 9 7 8 9

2 While reducing load to 54 percent power to allow for repairs
3 to the secondary side, an increase of power in quadrant four occurred
4 accompanied by a decrease in quadrant two power resulting from
5 a flux depression. This led to a radial tilt having a maximum
6 magnitude of 2.1 percent, which is greater than the 2 percent
7 allowable limit designated by Technical Specification 3.10.3.1.

9 R C 11 X 12 Z 13 Z Z Z Z Z Z 14 Z 15 Z 16
17 7 8 0 3 3 0 3 L 0
X 18 X 19 Z 20 Z 21 0 0 0 0 22 Y 23 N 24 N 25 Z 9 9 9 9 26

27 The cause of the tilt is attributed to the injection of boric
28 acid which occurred at the time during which the axial offset
29 was approaching its most negative value. The high flux set-
30 point was reduced as per Technical Specification 3.10.3.1 (a),
31 and the tilt condition was eliminated within 24 hours.

5 X 28 0 5 4 29 NA 30 A 31 Computer Alarm Annunciation 32

6 Z 33 Z 34 NA 35 NA 36

7 0 0 0 37 Z 38 NA 39

8 0 0 0 40 NA 41

9 Z 42 NA 43

0 N 44 NA 45

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ATTACHMENT 1

Docket No. 50-286

The Power Authority
of the State of New York

LER 78-033/03L-0

On October 14, 1978, while reducing load to 500 Mwe (54% power) to allow for repairs to the secondary side, a radial tilt having its greatest value at the bottom of quadrant four (loop 33, power range 42) was induced. The magnitude of the tilt was measured at 2.1% as per SOP-RPC-5.

A decrease in quadrant two power resulting from a flux depression led to the increased power in quadrant four. The cause of this depression is attributed to the injection of boric acid into loop 32 hot leg which accompanied the load reduction. The effect of the boric acid injection, which tended to favor the quadrant in which it had been originally injected, was accentuated by a negative axial offset caused by axial xenon redistribution.

As a result of the tilt, the high flux setpoint was reduced as per Technical Specification 3.10.3.1(a). The tilt condition was eliminated within 24 hours, due to the withdrawal of D bank control rods by seventeen steps. This caused a general redistribution of the core axial offset. Confirmation of the reduced tilt was obtained by measurements both from the excore and movable incore detectors.

On October 17, when xenon equilibrium had been reached, a full core flux map was taken in order to insure that there was no rod misalignment. There was no evidence of such found in the flux map analysis.

Operators have been instructed that axial offset (Delta Flux) should be kept as positive as the target band will allow during power reductions.

No similar event has been recorded to date.