

U.S. NUCLEAR REGULATORY COMMISSION
LICENSEE EVENT REPORT

CONTROL BLOCK / / / / / / (1) (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

/0/1/ /V/A/N/A/S/1/ (2) /0/0/-/0/0/0/0/0/-/0/0/ (3) /4/1/1/1/1/ (4) / / / (5)
LICENSEE CODE LICENSE NUMBER LICENSE TYPE CAT

/0/1/ REPORT /L/ (6) /0/5/0/0/0/3/3/8/ (7) /0/6/2/7/8/1/ (8) /0/7/2/2/8/1/ (9)
SOURCE DOCKET NUMBER EVENT DATE REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

/0/2/ / On June 27, 1981, during a power escalation, the quadrant power tilt ratio was /
/0/3/ / calculated and results indicated a tilt in excess of 1.02. The maximum quadrant /
/0/4/ / tilt ratio was 1.029 as measured by the upper detectors. This event is contrary /
/0/5/ / to T.S. 3.2.4. The core tilt was reduced to within its limit (less than 1.02) /
/0/6/ / within the 2 hour time limit of Action Statement a.1. Therefore, the health and /
/0/7/ / safety of the general public were not affected. This event is reportable pur- /
/0/8/ / suant to T.S. 6.9.1.9.b. /

SYSTEM CODE	CAUSE CODE	CAUSE SUBCODE	COMPONENT CODE	COMP. SUBCODE	VALVE SUBCODE
/0/9/ /R/C/ (11)	/X/ (12)	/Z/ (13)	/Z/Z/Z/Z/Z/Z/ (14)	/Z/ (15)	/Z/ (16)
LEP/RO	EVENT YEAR	SEQUENTIAL REPORT NO.	OCCURRENCE CODE	REPORT TYPE	REVISION NO.
(17) RE: RT NUMBER	/8/1/	/-/ /0/3/4/	/ \ /	/0/3/	/L/ /-/ /0/

ACTION TAKEN	FUTURE ACTION	EFFECT ON PLANT	SHUTDOWN METHOD	HOURS	ATTACHMENT SUBMITTED	NPRD-4 FORM SUB.	PRIME COMP. SUPPLIER	COMPONENT MANUFACTURER
/X/ (18)	/Z/ (19)	/Z/ (20)	/Z/ (21)	/0/0/0/ (22)	/Y/ (23)	/N/ (24)	/Z/ (25)	/Z/9/9/9/ (26)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

/1/0/ / The upper quadrant power tilt was caused by control rods being inserted lower in /
/1/1/ / the core than desired while increasing reactor power to 100 percent. Immediate /
/1/2/ / corrective action was a rod withdrawal by the operator which restored the tilt to /
/1/3/ / less than 1.02 within 1 hour. /
/1/4/ /

FACILITY STATUS	%POWER	OTHER STATUS	METHOD OF DISCOVERY	DISCOVERY DESCRIPTION (32)
/1/5/ /F/ (28)	/0/7/3/ (29)	/ NA / (30)	/B/ (31)	/ Periodic Testing /

ACTIVITY RELEASED	CONTENT OF RELEASE	AMOUNT OF ACTIVITY (35)	LOCATION OF RELEASE (36)
/1/6/ /Z/ (33)	/Z/ (34)	/ NA /	/ NA /

PERSONNEL EXPOSURES NUMBER	TYPE	DESCRIPTION (39)
/1/7/ /0/0/0/ (37)	/Z/ (38)	/ NA /

PERSONNEL INJURIES NUMBER	DESCRIPTION (41)
/1/8/ /0/0/0/ (40)	/ NA /

LOSS OF OR DAMAGE TO FACILITY TYPE	DESCRIPTION (43)
/1/9/ /Z/ (42)	/ NA /

PUBLICITY ISSUED	DESCRIPTION (45)	NRC USE ONLY
/2/0/ /N/ (44)	/ NA /	/ / / / / / / / / / / / / / /

Description of Event

On June 27, 1981, during power escalation, the core quadrant power tilt ratio was calculated using the excore detectors per PT-23 and results indicated a core tilt in excess of 1.02. The maximum quadrant tilt ratio was 1.029 as measured by the upper detectors. This event is contrary to T.S. 3.2.4 and reportable pursuant to T.S. 6.9.1.9.b.

Probable Consequences of Occurrence

The limit of 1.02 provides DNB and linear heat generation rate protection for X-Y plane power tilts. A period of two hours of operation between 1.02 and 1.09 is allowed by Technical Specifications to allow for problem analysis and correction. Beyond the two hour limit, a power reduction from 100% is necessary to reinstate the margin of uncertainty for FQ.

There was no effect on the safe operation of the plant as the tilt was reduced to within the limits before the time allowed by the Action Statement expired. Thus, at no time was the health and safety of the general public affected.

Cause of Event

The upper quadrant power tilt was caused by having the control rods inserted lower in the core than desired while increasing reactor power to 100%.

Immediate Corrective Action

After the presence of the tilt was determined, the control room operator withdrew control rods which reduced the tilt to 1.009 within 1 hour.

Scheduled Corrective Action

No scheduled corrective action is required.

Actions Taken to Prevent Recurrence

No further actions are required.

Generic Implications

There are no generic implications associated with this event.