

# LICENSEE EVENT REPORT

CONTROL BLOCK:

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0 1 | S | C | H | B | R | 2 | 2 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 3 | 4 | 1 | 1 | 1 | 0 | 4 | 57 CAT 58

R 9 LICENSEE CODE 14 15 LICENSE NUMBER 25 26 LICENSE TYPE 30 57 CAT 58

CON'T

REPORT SOURCE L G 0 5 0 0 0 2 6 1 7 0 5 1 7 8 0 9 0 5 5 0 0 0

DOCKET NUMBER EVENT DATE REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

At approximately 0030 hours on May 17, 1980, while operating at 40% reactor power, a radial tilt greater than 2% was calculated. The tilt ratio returned to within the limits of Technical Specification 3.10.3.1 at 1700 hours on May 17, 1980. During this period the reactor remained at 40% power level, however, the power range high flux setpoint was not reset to be less than 2% of rated values for every percent of indicated tilt ratio exceeding 1.0. This is contrary to the requirements of Technical Specification 3.10.3.1.a and is reportable pursuant to Technical Specification 6.9.2.a(2). Based on review of incore flux map data and core power conditions it was concluded there was no actual tilt and operation without the setpoints reset would not have resulted in an increase in the probable consequences associated with any potential transient or postulated accident.

SYSTEM CODE I A		CAUSE CODE A		CAUSE SUBCODE A		COMPONENT CODE I N S T R U				COMP. SUBCODE E		VALVE SUBCODE Z	
EVENT YEAR 8 0				SEQUENTIAL REPORT NO. 0 1 3				OCCURRENCE CODE 0 3		REPORT TYPE L			
ACTION TAKEN E		FUTURE ACTION H		EFFECT ON PLANT Z		SHUTDOWN METHOD Z		HOURS 0 0 0 0		ATTACHMENT SUBMITTED Y		PRIME COMP. SUPPLIER N	
CAUSE DESCRIPTION AND CORRECTIVE ACTIONS												REVISION NO. 0	

COMPONENT MANUFACTURER  
W 1 2 0

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS	
10	Review of the event revealed the personnel involved incorrectly interpreted the requirement of Technical Specification 3.10.3.1 which states that the actions of the specification are not required during power increase at less than 50% power. When this condition was realized, the reactor was shutdown, required maintenance performed, and the high flux setpoints reset to 55% rated power. The reactor was returned to 40% power on May 18, 1980, and the high flux setpoints were reset after review of flux maps indicated no tilt conditions. All personnel affected will review this LER and be made aware of the correct interpretation of this specification.
14	

7 8 9  
FACILITY STATUS (30) % POWER OTHER STATUS (31) METHOD OF DISCOVERY (32) DISCOVERY DESCRIPTION (32) Operator Observation (32)  
1 5 E 28 0 4 0 29 NA A 31 80  
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50  
ACTIVITY CONTENT AMOUNT OF ACTIVITY (35) LOCATION OF RELEASE (36)  
1 6 Z 33 Z 34 NA 35 NA 36 80  
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50  
PERSONNEL EXPOSURES  
NUMBER TYPE DESCRIPTION (39)  
1 7 0 0 0 37 Z 38 NA 39 80  
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50  
PERSONNEL INJURIES  
NUMBER DESCRIPTION (41)  
1 8 0 0 0 40 NA 41 80  
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50  
LOSS OF OR DAMAGE TO FACILITY  
TYPE DESCRIPTION (43)  
1 9 Z 42 NA 43 80  
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50  
PUBLICITY  
ISSUED DESCRIPTION (45)  
2 0 N 44 NA 45 80  
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50  
NRC USE ONLY  
68 69 70 71 72 73 74 75 76 77 78 79 80

NRC USE ONLY

NAME OF PREPARED: R. B. Starkey, Jr. 8006050332 PHONE: (803) 383-4524

## SUPPLEMENTAL INFORMATION FOR LER 80-13

### I. Cause Description and Analysis

While operating at 40% power at 0030 hours on May 17, 1980, a radial tilt greater than 2% was indicated. At 1700 hours on May 17, 1980, this condition was eliminated and the tilt was within the limits of Technical Specification 3.10.3.1. During the period from 0030 to 1700 hours the reactor remained at 40% power but the power range high flux setpoint was not reset to be less than 2% of rated values for every percent of indicated tilt ratio exceeding 1.0. This condition is contrary to the requirements of Technical Specification 3.10.3.1.a. This event was attributed to the personnel involved not realizing that 3.10.3.1 applied to all levels of power operation except power increases at less than 50% reactor power. Review of full core incore flux map data taken during the indicated tilt condition on May 17, 1980, revealed that no quadrant power tilt existed as indicated by the radial tilt calculations. The indication by the calculations is attributed to the use of detector current values normalized to 100% power in the calculations immediately following a power reduction from 93% to 40% reactor power level. When core conditions established equilibrium conditions at 40% power, the indicated tilt ratio using the detector currents normalized to 100%, was calculated to be within the specifications of 3.10.3.1. Based on the results of the incore flux maps revealing no quadrant power tilt condition and the calculated ratio returning to within the limits of the specifications as core equilibrium conditions were established, it is concluded that there was no actual tilted condition and the operation without the high flux setpoints reset did not increase any probable adverse consequences of any potential transient or postulated accident.

### II. Corrective Action

Upon realization that the high flux trip setpoints had not been reset and due to maintenance problems (NIS excore detector N42 out of service), the reactor was placed in hot shutdown at 1900 on May 17, 1980. This was done even though the indicated tilt from the radial tilt calculations was within the limits of Technical Specification 3.10.3.1. While shutdown, the power range high flux setpoints were reduced to 55% power. The unit was returned to power operation at 40% reactor power on May 18, 1980, after completion of detector replacement. The unit operated in this condition (40% power, 55% trip setpoint) until a thorough review of the core conditions and full core flux map data taken on May 17, 1980, and May 21, 1980, was completed on May 22, 1980. The high flux setpoints were then reset to rated values. This corrective action complied with the action required by Technical Specification 3.10.3.1.

### III. Corrective Action To Prevent Further Occurrence

Personnel directly involved were specifically counseled as to the correct interpretation of Technical Specification 3.10.3.1. All personnel affected will review this LER and will be aware of the necessity to follow all required action when a tilted condition is indicated regardless of power level. In addition, Technical Specification 3.10.3.1 and the affected plant procedures will be reviewed and appropriate revisions will be made to ensure that the proper interpretation of the specification is clearly stated.