

LICENSEE EVENT REPORT

CONTROL BLOCK: 1 - 1 1 1 1 (1)

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0	1	T	N	S	N	P	1	7	0	0	-	0	0	0	0	0	-	0	0	3	4	1	1	1	1	4			5		
7	8	9	LICENSEE CODE					14	15	LICENSE NUMBER										25	26	LICENSE TYPE					30	31	CAT		34

CONT

REPORT SOURCE L 6 0 5 1 0 0 0 3 2 7 7 1 2 0 6 8 3 8 0 1 0 4 8 4 9

60 61 DICKET NUMBER 68 69 EVENT DATE 74 75 REPORT DATE 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

Unit 1 in mode 5 (130 degrees F, 300 psig) and unit 2 in mode 1 at 100% RTP. On

03 12/06/83 during performance of SI-251.1, "Channel Calibration of Class 1E Motor

04 | Operated Valve Thermal Overload Relay Heaters", the thermal overload devices on

05 [ ] several motor-operated valves failed the trip check test. This event required

06 [redacted] entry into LCO 3.8.3.2. There was no effect upon public health or safety.

07 Previous occurrences - none. •

018

019		SYSTEM CODE X X		11	CAUSE CODE D		12	CAUSE SUBCODE Z		13	COMPONENT CODE V A L V O P				14	COMP. SUBCODE A		15	VALVE SUBCODE Z		16								
7	8	9	10		11		12		13					14			15			16									
17		LER/RO REPORT NUMBER		EVENT YEAR 8 3		21		22		23		24		25		26		27		28		29		30		31		32	
ACTION TAKEN		FUTURE ACTION		EFFECT ON PLANT		SHUTDOWN METHOD		HOURS		ATTACHMENT SUBMITTED		NPRD-4 FORM 5B		PRIME COMP. SUPPLIER		COMPONENT MANUFACTURER													
A		G		Z		Z		0 0 0 0		Y		N		L		A													
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60		

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)	
110	The thermal overload relay heaters which failed the test were determined to be

31 improperly sized. Although the thermal overloads were improperly sized, the

operation of the valves was not jeopardized. The thermal overloads were replaced

13 With properly sized overload heaters and satisfactorily tested.

1 1 4

FAULTY STATUS				% POWER			OTHER STATUS		METHOD OF DISCOVERY		DISCOVERY DESCRIPTION	
1	5	G	28	0	0	0	29	NA	B	31	Surveillance testing.	

ACTIVITY CONTENT		AMOUNT OF ACTIVITY		LOCATION OF RELEASE	
1	2	3	4	5	6
1	2	3	4	5	6

7 8 9 10 11 44

PERSONNEL EXPOSURES

45 80

NUMBER		TYPE		DESCRIPTION
1	7	0	0	0
			(17)	Z (38) NA

8	9	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	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
		PERSONNEL INJURIES																																																											80										
		NUMBER																																																																					
		DESCRIPTION																																																																					

1 2 3 4 5 6 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 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

LOSS OF OR DAMAGE TO FACILITY (43)  
TYPE DESCRIPTION  
PDR ADPOCK 05000327  
S PDR  
TE22

8 9 10 NA

ISSUED DESCRIPTION (45) NA

NAC USE ONLY ✓

Name of Preparer: G. E. Duggin /M. R. Harding

Phone: (615) 870-6422

LER SUPPLEMENTAL INFORMATION

SQRO-50-327/83189

Technical Specification Involved: 3.8.3.2

Reported Under Technical Specification: 6.9.1.13.b

Date of Occurrence: 12/06/83

Time of Occurrence: 0630 (C)

Identification and Description of Occurrence:

During performance of SI-251.1, "Channel Calibration of Class 1E Motor Operated Valve Thermal Overload Relay Heaters", the thermal overload heaters on the following valves failed the trip check test: 1-FCV-3-87, 1-FCV-63-48, 0-FCV-67-151, 0-FCV-67-152, 0-FCV-67-478B, 2-FCV-62-98, 2-FCV-67-130, 2-FCV-70-134, 2-FCV-67-223, 2-FCV-63-7, 2-FCV-63-6, 2-FCV-67-146, and 2-FCV-67-125.

Conditions Prior to Occurrence:

Unit 1 in mode 5 with RCS temperature and pressure at 130 degrees F and 300 psig.

Unit 2 in mode 1 at 100% RTP.

Apparent Cause of Occurrence:

The thermal overload heaters which failed the test were determined to be improperly sized.

Analysis of Occurrence:

The valves containing the improperly sized thermal overload heaters only constitute approximately 5.5% of the total valves having the overloads. Since the overloads were undersized, they tripped too early in the timed high-current overload test. Although the thermal overloads were improperly sized, the operation of the valves was not jeopardized.

Procedures did not specify testing of the thermal overload heaters prior to installation to ensure they met sizing criteria. Damaged or failed overloads may have been replaced in the past with regular industrial overloads instead of higher rated overloads required for class 1E equipment. The original tests on all valves indicate that all valves met testing criteria at that time.

Corrective Action:

Each thermal overload heater failing the test was replaced immediately upon discovery. Procedures will be revised to require post maintenance testing on all class 1E valves when the thermal overload heater is replaced or adjusted.

Failure Data:

None.

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

1750 Chestnut Street Tower 11

January 4, 1984

Mr. James P. O'Reilly, Director  
U.S. Nuclear Regulatory Commission  
Suite 2900  
101 Marietta Street, NW.  
Atlanta, Georgia 30303

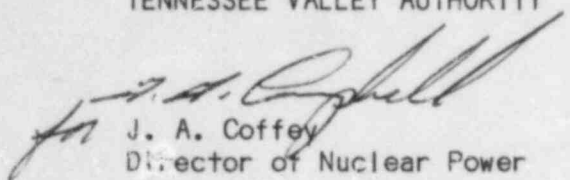
Dear Mr. O'Reilly:

TENNESSEE VALLEY AUTHORITY - SEQUOYAH NUCLEAR PLANT UNIT 1 - DOCKET  
NO. 50-327 - FACILITY OPERATING LICENSE DPR-77 - REPORTABLE OCCURRENCE  
REPORT SQRO-50-327/83180

The enclosed report provides details concerning the failure of thermal  
overload devices on several motor-operated valves tested during  
surveillance testing. This report is submitted in accordance with  
Sequoyah unit 1 Technical Specification 6.9.1.13.b.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

  
J. A. Coffey  
Director of Nuclear Power

Enclosure

cc (Enclosure):

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Washington, D.C. 20555

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NRC Inspector, Sequoyah

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