

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)
DISTRIBUTION FOR INCOMING MATERIAL

50-269

REC: O'REILLY J P
NRC

ORG: PARKER W O
DUKE PWR

DOCDATE: 01/26/78
DATE RCVD: 01/26/78

DOCTYPE: LETTER NOTARIZED: NO
SUBJECT:

COPIES RECEIVED
LTR 0 ENCL 1

LICENSEE EVENT REPT (RO 50-269/77-31) ON 12/29/77 CONCERNING RCS PRESSURE
CHANNEL INOPERABLE DUE TO DIAPHRAGM OF PRESSURE SWITCH 1PS-364 FAILING.

PLANT NAME: OCONEE - UNIT 1

REVIEWER INITIAL: XJM
DISTRIBUTOR INITIAL:

***** DISTRIBUTION OF THIS MATERIAL IS AS FOLLOWS *****

NOTES:

1. M. CUNNINGHAM - ALL AMENDMENTS TO FSAR AND CHANGES TO TECH SPECS

INCIDENT REPORTS
(DISTRIBUTION CODE A002)

FOR ACTION: BRANCH CHIEF SCHWENCER**W/4 ENC

INTERNAL:	REG FILE**W/ENCL	NRC PDR**W/ENCL
	I & E**W/2 ENCL	MIPC**W/3 ENCL
	SCHROEDER/IPPOLITO**W/ENCL	HOUSTON**W/ENCL
	NOVAK/CHECK**W/ENCL	GRIMES**W/ENCL
	KNIGHT**W/ENCL	BUTLER**W/ENCL
	HANAUER**W/ENCL	TEDESCO**W/ENCL
	EISENHUT**W/ENCL	BAER**W/ENCL
	SHAO**W/ENCL	VOLLMER/BUNCH**W/ENCL
	KREGER/J. COLLINS**W/ENCL	ROSA**W/ENCL
	L. CROCKER**W/ENCL	

EXTERNAL: LPDR'S
WALHALLA, SC**W/ENCL
TIC**W/ENCL
NSIC**W/ENCL
ACRS CAT B**W/16 ENCL

DISTRIBUTION: LTR 45 ENCL 45
SIZE: 1P+2P+1P

CONTROL NBR: 780310003

***** THE END *****

Handwritten signature and initials
004

DUKE POWER COMPANY

POWER BUILDING

422 SOUTH CHURCH STREET, CHARLOTTE, N. C. 28242

WILLIAM O. PARKER, JR.
VICE PRESIDENT
STEAM PRODUCTION

January 26, 1978

TELEPHONE: AREA 704
373-4083

Mr. James P. O'Reilly, Director
U. S. Nuclear Regulatory Commission
Suite 1217
230 Peachtree Street, Northwest
Atlanta, Georgia 30303

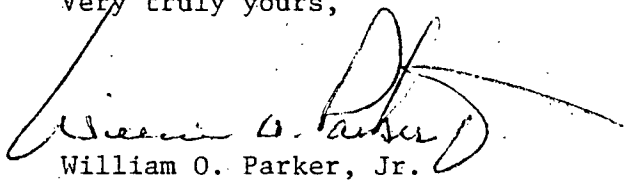


RE: Oconee Unit 1
Docket No. 50-269

Dear Mr. O'Reilly:

Pursuant to Sections 6.2 and 6.6.2 of the Oconee Nuclear Station
Technical Specifications, please find attached Reportable Occurrence
Report RO-269/77-31.

Very truly yours,


William O. Parker, Jr.

KRW:ge
Attachment

cc: Director, Office of Management Information
and Program Control

780310003

A002/5
0/1

DUKE POWER COMPANY
OCONEE UNIT 1

Report No.: RO-269/77-31

Report Date: January 26, 1978

Occurrence Date: December 29, 1977

Facility: Oconee Unit 1, Seneca, South Carolina

Identification of Occurrence: RCS Pressure Channel Inoperable

Conditions Prior to Occurrence: 90 percent full power

Description of Occurrence:

On December 27, 1977, unidentified Reactor Coolant System leakage of less than 1 gpm was detected. At 2131 RPS Channel A tripped on low pressure/temperature and was placed in manual bypass. At 0200 on December 28 the previously detected leak was determined to be coming from the area of Engineered Safeguard Channel 1 and RPS Channel A Pressure Transmitter. A reactor shutdown was initiated at 0209 due to high Reactor Building (RB) activity. At 0600 personnel entered the RB and determined that pressure switch 1 PS-364 was leaking and valved it out. Reactor power reduction was stopped at 39 percent full power and with the isolation of 1PS-364, RPS Channel A was returned to service..

At 2400 during PT/1&2/0600/01, it was determined that RC Loop A wide range (WR) pressure was indicating high. Further investigation determined that ES Analog Channel 1 WR pressure was indicating high and would not trip at required setpoints. ES Analog Channel 1 was placed in trip condition. Pressure transmitter 1PT-21P, which is located approximately 5 feet from and slightly below 1PS-364 was recalibrated and ES Analog Channel 1 was returned to service.

Apparent Cause of Occurrence:

The diaphragm of pressure switch 1PS-364 evidently failed as steam was seen blowing from the switch. This failure caused RPS Channel A to trip. The steam from the switch failure evidently impacted on and shifted the zero setting of pressure transmitter 1PT-21P. The zero shift caused the high reading on ES Analog Channel 1.

Analysis of Occurrence:

Pressure switch 1PS-364 provides a signal to prevent valves LP-1, -2 from opening with RCS pressure greater than 400 psig. The failed diaphragm caused RPS Channel A to trip. RPS Channels B, C & D remained fully operational during the incident as required by Technical Specifications 3.5.1. Valves LP-1, -2 had been tagged shut prior to this incident.

The zero setpoint of pressure transmitter 1PT-21P shifted when it was heated by steam from the switch failure. ES Analog Channel 1 which provides a signal for LPI and HPI initiation became inoperable, however, channels 2 and 3 remained fully operational as required by Technical Specification 3.5.1. The health and safety of the public were not endangered by this incident.

Corrective Action:

Pressure switch 1PS-364 is presently valved out and will be replaced during a future outage. Pressure transmitter 1PT-21P was recalibrated and returned to service.

EXHIBIT A

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

CONT

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

7 8 9

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

7 8 9

[illegible]PERSONNEL EXPOSURES 80

PERSONNEL INJURIES	80
--------------------	----

7
8
9 LOSS OF OR DAMAGE TO FACILITY ()
10
11
12

80

7
8
9
10

7	8	9	10	68	69	70
---	---	---	----	----	----	----

PHONE: (704) 373-8197