B 03/15/78

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)
DISTRIBUTION FOR INCOMING MATERIAL 50-287

REC: OREILLY J P
NRC

ORG: PARKER W O
DUKE PWR

DOCDATE: 03/09/78
DATE RCVD: 03/14/78

DOCTYPE: LETTER NOTARIZED: NO
SUBJECT:
LICENSEE EVENT REPT (RO 50-287/78-005) ON 02/07/78 CONCERNING DURING VALVE OPERABILITY TEST, BS-2 FAILED IN AN INTERMEDIATE POSITION CAUSING ONE OF TWO BLDG SPRAY TRAINS TO BE INOPERABLE.

COPIES RECEIVED
LTR 1 ENCL 1

PLANT NAME: OCONEE - UNIT 3

REVIEWER INITIAL: XJM
DISTRIBUTOR INITIAL: DL

********** 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: BR CHIEF REID**W/4 ENCL

INTERNAL: REG FILE**W/ENCL
I & E**W/2 ENCL
SCHROEDER/IPPOLITO**W/ENCL
NOVAK/CHECK**W/ENCL
KNIGHT**W/ENCL
HANAUER**W/ENCL
EISENHUT**W/ENCL
SHAO**W/ENCL
KREGER/J. COLLINS**W/ENCL
K SEYFRIT/IE**W/ENCL
NRC PDR**W/ENCL
MIPC**W/3 ENCL
HOUSTON**W/ENCL
GRIMES**W/ENCL
BUTLER**W/ENCL
TEDESCO**W/ENCL
BAER**W/ENCL
VOLLMER/BUNCH**W/ENCL
ROSA**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+1P+1P

CONTROL NBR: 780740017

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

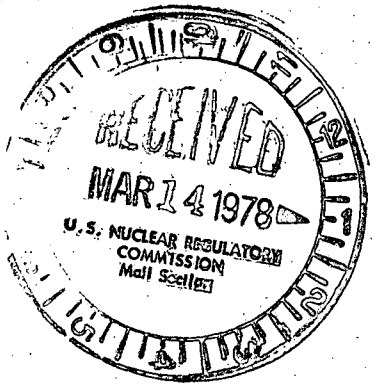
DUKE POWER COMPANY
POWER BUILDING
422 SOUTH CHURCH STREET, CHARLOTTE, N. C. 28242

WILLIAM O. PARKER, JR.
VICE PRESIDENT
STEAM PRODUCTION

TELEPHONE: AREA 704
373-4083

March 9, 1978

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



RE: Oconee Unit 3
Docket No. 50-287

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-287/78-5.

Very truly yours,

William O. Parker Jr.
by WAH

William O. Parker, Jr.

KRW/rpc

Attachment

cc: Director, Office of Management Information
and Program Control

A002
S
1 1 1

780740017

DUKE POWER COMPANY
OCONEE UNIT 3

Report Number: RO-287/78-5

Report Date: March 9, 1978

Occurrence Date: February 7, 1978

Facility: Oconee Unit 3, Seneca, South Carolina

Identification of Occurrence: 3BS-2 ES Discharge Valve Failure

Conditions Prior to Occurrence: 100 Percent Full Power

Description of Occurrence:

On February 7 at 0950 during the performance of PT/3/A/0150/15A (valve operability), valve 3BS-2 Reactor Building Spray System Discharge Valve, failed in an intermediate position. It was determined that the valve stem was damaged and would have to be replaced. A replacement valve stem was fabricated on-site but failed when it was operated. A reactor shutdown was commenced at 1849 as required by Technical Specification 3.3.5. The shutdown was halted when the station was notified that a Technical Specification change had been approved extending the time allowed for repair to 72 hours. At 0345 on February 10, the stem was replaced and the valve functioned properly.

Apparent Cause of Occurrence:

The apparent cause of the valve failure was the faulty stem which was either caused or aggravated by a faulty torque switch.

Analysis of Occurrence:

The failure of 3BS-2 caused the B train of the Reactor Building Spray System to be inoperable. However, the A train was available at all times to mitigate the consequences of any potential accidents. The analysis of the potential hazard associated with one spray train being inoperable is presented in FSAR Supplement 13 and indicates that the system is fully capable of handling any postulated incident. The Technical Specifications for the Oconee Nuclear Station allow for a 24 hour repair time but Standard Technical Specifications allow a 72 hour period. Upon request by Duke, the NRC extended the allowed repair time to 72 hours. The health and safety of the public were not affected by this incident.

Corrective Action:

The corrective action taken was the replacement of the valve stem, stem key and torque switch. The valve functioned properly after the repair parts were installed.

NRC FORM 366 (7-77)

U.S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT

EXHIBIT A

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

01 | LICENSEE CODE: S C N E E 3 (2) | LICENSE NUMBER: 0 0 - 0 0 0 0 0 - 0 0 (3) | LICENSE TYPE: 4 1 1 1 1 (4) | CAT (5)

CON'T 01 | REPORT SOURCE: L (6) | DOCKET NUMBER: 0 5 0 0 0 2 8 7 (7) | EVENT DATE: 0 2 0 7 7 8 (8) | REPORT DATE: (9)

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 On February 7, 1978, during a valve operability test, BS-2 failed in an
03 intermediate position. The failure caused one of two building spray trains
04 to be inoperable. The other spray train was available at all times to miti-
05 gate the consequences of any accidents. The repairs were completed within
06 the time allotted in Tech. Spec. 3.5.3, as amended. Therefore, public health
07 and safety were not endangered.
08

09	SYSTEM CODE	CAUSE CODE	CAUSE SUBCODE	COMPONENT CODE	COMP. SUBCODE	VALVE SUBCODE
	S B (11)	E (12)	A (13)	V A L V O P (14)	A (15)	Z (16)

(17) LER/RO REPORT NUMBER

EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE	REPORT TYPE		REVISION NO.
7 8	—	0 0 5	/	0 3	L	—	0

ACTION TAKEN	FUTURE ACTION	EFFECT ON PLANT	SHUTDOWN METHOD	HOURS (22)	ATTACHMENT SUBMITTED	NPRD-4 FORM SUB.	PRIME COMP. SUPPLIER	COMPONENT MANUFACTURER
A (18)	Z (19)	B (20)	A (21)	0 0 0 2	Y (23)	Y (24)	N (25)	L 2 0 0 (26)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 The cause of the valve's inoperability was the failure of the valve stem;
11 however, it is likely that this was caused, at least in part, by a faulty
12 torque switch. An on-site fabricated stem also failed before the switch was
13 replaced. The manufactured replacement stem functioned properly when the
14 switch was also replaced. The stems were made by Walworth.

15	FACILITY STATUS	% POWER	OTHER STATUS (30)	METHOD OF DISCOVERY	DISCOVERY DESCRIPTION (32)
	E (28)	1 0 0 (29)	NA	B (31)	During PT/3/A/0150/15A

16	ACTIVITY RELEASED	CONTENT OF RELEASE	AMOUNT OF ACTIVITY (35)	LOCATION OF RELEASE (36)
	Z (33)	Z (34)	NA	NA

PERSONNEL EXPOSURES

17	NUMBER	TYPE	DESCRIPTION (39)
	0 0 0 (37)	Z (38)	NA

PERSONNEL INJURIES

18	NUMBER	DESCRIPTION (41)
	0 0 0 (40)	NA

LOSS OF OR DAMAGE TO FACILITY (43)

19	TYPE	DESCRIPTION
	Z (42)	NA

PUBLICITY

20	ISSUED	DESCRIPTION (45)	NRC USE ONLY
	N (44)	NA	

NAME OF PREPARER K. R. Wilson PHONE: (704) 373-8197