NRC FORM 366 (12-81)
U.S. NUCLEAR REGULATORY COMMISSION
APPROVED BY OMB 3150-0011 EXPIRES 4-30-82

LICENSEE EVENT REPORT

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

01 LICENSEE CODE: S C N E E 2 (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 7 0 (7) EVENT DATE: 0 5 3 1 8 3 (8) REPORT DATE: 0 6 3 0 8 3 (9)

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

On May 31, 1983 at 1553, the "2A" MDEFDW pump became inoperable when power was removed from its circuitry so that the automatic initiation switch (for low discharge pressure) 2PS-388, could be repaired. While this pump was inoperable, the main feedwater system, the "2B" MDEFDWP, and the TDEFDWP and emergency feedwater from the other two units, were available. The removal of the "2A" MDEFDWP was a planned action, and appropriate plans were made. Therefore, the health and safety of the public were not endangered.

SYSTEM CODE	CAUSE CODE	CAUSE SUBCODE	COMPONENT CODE	COMP. SUBCODE	VALVE SUBCODE
C H (11)	E (12)	E (13)	I N S T R U (14)	S (15)	Z (16)

(17) LER/RO REPORT NUMBER

EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE	REPORT TYPE		REVISION NO.
8 3	—	0 0 8	/	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)	Z (20)	Z (21)	0 0 0 0	N (23)	Y (24)	L (25)	C 7 5 3 (26)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

The root cause was component failure. The switch developed a small hole which allowed water in its circuitry causing it to fail. To repair this switch, power had to be removed from the pump, making the pump inoperable. The switch was replaced, calibrated, and was determined to be functional. The "2A" MDEFDWP was declared operable at 0955 on June 1, 1983.

FACILITY STATUS	% POWER	OTHER STATUS (30)	METHOD OF DISCOVERY	DISCOVERY DESCRIPTION (32)
E (28)	1 0 0 (29)	NA	B (31)	Planned inoperability

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

PERSONNEL EXPOSURES

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

PERSONNEL INJURIES

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

LOSS OF OR DAMAGE TO FACILITY (43)

TYPE	DESCRIPTION
Z (42)	NA

IE22 1/1

PUBLICITY

ISSUED	DESCRIPTION (45)
N (44)	

8307120093 830630
PDR ADOCK 05000270
S PDR

NRC USE ONLY

NAME OF PREPARER Jocelyn C. Petty PHONE: (704) 373-8270

DUKE POWER COMPANY
P.O. BOX 33189
CHARLOTTE, N.C. 28242

HAL B. TUCKER
VICE PRESIDENT
NUCLEAR PRODUCTION

TELEPHONE
(704) 373-4531

June 30, 1983

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

Re: Oconee Nuclear Station
Docket No. 50-270

Dear Mr. O'Reilly:

Please find attached Reportable Occurrence Report RO-270/83-08. This report is submitted pursuant to Oconee Nuclear Station Technical Specification 6.6.2.1.b(2) which concerns operation in a degraded mode permitted by a limiting condition for operation, and describes an incident which is considered to be of no significance with respect to its effect on the health and safety of the public.

Very truly yours,

H. B. Tucker /JCP

Hal B. Tucker

JCP/php

Attachment

cc: Document Control Desk
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

INPO Records Center
Suite 1500
1100 Circle 75 Parkway
Atlanta, Georgia 30339

Mr. J. C. Bryant
NRC Resident Inspector
Oconee Nuclear Station

Mr. John F. Suermann
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

IE 22
1/1

Duke Power Company
Oconee Nuclear Station

Report Number: RO-270/83-08

Report Date: June 30, 1983

Occurrence Date: May 31, 1983

Facility: Oconee Unit 2, Seneca, South Carolina

Identification of Occurrence: The "2A" MDEFDW Pump was made inoperable when power was removed to repair a switch.

Conditions Prior to Occurrence: 100% FP

Description of Occurrence: On May 31, 1983 at 1553, the "2A" Motor Driven Emergency Feedwater Pump (MDEFDWP) became inoperable when power was removed from its circuitry. Power was removed to facilitate repair of the "2B" Main Feedwater Pump Discharge Pressure Switch 2PS-388.

While performing the monthly safety related functional test of the MDEFDWP initiation pressure switches, pressure switch 2PS-388 failed. This switch is part of the auto-initiation circuitry for the "2A" MDEFDWP. When this switch is inoperable, it would prevent the "2A" MDEFDWP from automatically starting on low discharge pressure indication for both main feedwater pumps. To repair the switch, the breaker for the control circuitry for the subject pump was removed. This made the "2A" MDEFDWP inoperable and constituted operation in a degraded mode per Technical Specification 3.4.2(a).

Apparent Cause of Occurrence: The root cause of this occurrence is a component failure. Because the switch failed, the "2A" MDEFDWP had to be made inoperable to repair the switch and to restore the portion of automatic initiation capability that was lost back to the pump system. A small hole was found in the bellows of the switch which allowed water from the pressure line to get into the circuitry compartment causing it to fail when tested. During the previous monthly test, all of the "2A" MDEFDWP system met the required criteria.

Analysis of Occurrence: At the time "2A" MDEFDWP was inoperable, the main feedwater system was operable for decay heat removal and cooldown above 250°F. Also available to meet the same requirements were the "2B" MDEFDW pump, the turbine driven emergency feedwater pump and emergency feedwater from the other two units. The removal of "2A" MDEFDWP was a planned action by Operations personnel. Appropriate plans for actions to be taken, if an event took place while "2A" MDEFDWP was inoperable, were made. Therefore, the health and safety of the public were not endangered.

Corrective Action: Pressure switch 2PS-388 was replaced with a new one. The new switch was calibrated and a functional test was made of the "2A" MDEFDWP auto-initiation circuitry. The "2A" MDEFDWP was declared operable at 0955 on June 1, 1983.