

I 04/28/78

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)
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50-269/270/287

REC: OREILLY J P
NRC

ORG: PARKER W O
DUKE PWR

DOC DATE: 04/21/78
DATE RCVD: 04/28/78

DOCTYPE: LETTER NOTARIZED: NO
SUBJECT:

COPIES RECEIVED
LTR 1 ENCL 1

FORWARDING LICENSEE EVENT REPT (RO 50-269/007) ON 03/14/78 CONCERNING OCONEE ATTEMPTED TO START KEDWEE HYDRO UNIT 2 WHICH IS SOURCE OF AUXILIARY PWR FOR SUBJECT FACILITY. UNIT FAILED TO START DUE TO AN INOPERABLE FIELD FLASHING BREAKER. W/ATT LER 78-0

PLANT NAME: OCONEE - UNIT 1
OCONEE - UNIT 2
OCONEE - UNIT 3

REVIEWER INITIAL: XJM
DISTRIBUTER 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: BR CHIEF REID**W/4 ENCL

INTERNAL: REG FILE**W/ENCL
I & E**W/2 ENCL
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NOVAK/CHECK**W/ENCL
KNIGHT**W/ENCL
HANAUER**W/ENCL
EISENHUT**W/ENCL
SHAD**W/ENCL
KREGER/J. COLLINS**W/ENCL
K SEYFRIT/IE**W/ENCL

NRC PDR**W/ENCL
MIPC**W/3 ENCL
HOUSTON**W/ENCL
EEB**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

COPIES NOT SUBMITTED PER
REGULATORY GUIDE 10.1

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

CONTROL NBR: 781180128

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

DUKE POWER COMPANY

POWER BUILDING

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

WILLIAM O. PARKER, JR.
VICE PRESIDENT
STEAM PRODUCTION

April 21, 1978

TELEPHONE: AREA 704
373-4083

DUKE POWER SERVICES

1978 APR 28 PM 12 15

REGISTRATION
SERVICES UNIT

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

RE: Oconee Units 1,2,3
Docket Nos. 50-269, -270, -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
Reports RO-269/78-7 and RO-269/78-9.

Very truly yours,

William O Parker Jr
William O. Parker, Jr.

KRW:ge
Attachment

cc: Director, Office of Management Information
and Program Control

REGULATORY DOCKET FILE COPY

781180128

A002 3
S
1/1

DUKE POWER COMPANY
OCONEE UNITS 1,2,3

Report No.: RO-269/78-7; RO-269/78-9

Report Date: April 21, 1978

Occurrence Dates: March 14, 1978; March 22, 1978

Facility: Oconee Nuclear Station, Seneca, South Carolina

Identification of Occurrence: Keowee Unit 2, Field Flashing Breaker
Inoperable

Conditions Prior to Occurrence: Unit 1 100% Full Power
Unit 2 100% Full Power
Unit 3 100% Full Power
(Both Occurrences)

Description of Occurrence:

This type of incident has occurred on four previous occasions and has been addressed in Reportable Occurrence Reports RO-269/77-29, 78-1, 78-3, and 78-6, transmitted by my letters of January 18, February 3, March 23, and April 7, 1978, respectively.

On March 14, 1978, the Keowee Unit 2 field flash breaker failed to properly function following an automatic start command from the Oconee Unit 1 and 2 Control Room. Following this incident, two faulty relays were found and replaced. No other abnormalities could be found during a complete check of the control circuits. Oconee Control Operators verified Keowee Unit 2 operable by initiating an automatic start successfully.

On March 22, 1978, the Keowee Unit 2 field flash breaker again failed to close upon demand. Maintenance personnel checked the field flash breaker, control circuits and associated relays. The breaker was operated again under observation and was observed to trip upon closing. The trip coil was causing a breaker trip for no known reason. All components were again inspected with no abnormalities observed.

Apparent Cause of Occurrence:

No apparent cause for the repeated breaker inoperability has been determined. A special task force has been organized to investigate this recurring problem. Investigation will continue until the cause can be determined.

Analysis of Occurrence:

The failure of the breaker to close caused Keowee 2 to become temporarily inoperable. During both instances, Keowee Unit 1 was fully operable and capable of supplying emergency power to Oconee, if required. The health and safety of the public were not endangered.

Corrective Action:

Two faulty relays were replaced after the March 14, 1978 incident, but this did not prevent the March 22 failure. A recorder will be installed to monitor the trip circuits and attempt to isolate the cause of these occurrences.

LICENSEE EVENT REPORT

EXHIBIT A

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

01	S	C	N	E	E	1	2	0	0	-	0	0	0	0	0	0	0	0	3	4	1	1	1	1	4	5
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
LICENSEE CODE						LICENSE NUMBER								LICENSE TYPE				CAT	54							

CONT

01	L	6	0	5	0	0	0	2	6	9	7	0	3	1	4	7	8	8	0	4	2	1	7	8	9
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
REPORT SOURCE		DOCKET NUMBER						EVENT DATE				REPORT DATE													

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 At 0630 on March 14, 1978, during normal operation, Oconee attempted to
 03 start Keowee Hydro Unit 2 which is a source of auxiliary power for the
 04 Oconee Nuclear Station. The unit failed to start due to an inoperable
 05 field flashing breaker. The unit was started without incident after an
 06 investigation had been completed. Keowee Unit 1 and other sources of
 07 auxiliary power for the station were available if needed so that no loss
 08 of emergency power was experienced. Thus public health and safety were not
 7 8 9 endangered. 80

09	E	E	X	X	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z												
7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22												
SYSTEM CODE		CAUSE CODE		CAUSE SUBCODE		COMPONENT CODE				COMP. SUBCODE		VALVE SUBCODE															
17	7	8	0	7	0	3	L	0	X	A	Z	Z	0	0	0	0	Y	Y	L	Z	9	9	9				
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			
LER/RO REPORT NUMBER		EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE		REPORT TYPE		REVISION NO.		ACTION TAKEN		EFFECT ON PLANT		SHUTDOWN METHOD		HOURS		ATTACHMENT SUBMITTED		NRC-4 FORM SUB.		PRIME COMP. SUPPLIER		COMPONENT MANUFACTURER	

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 The field flashing breaker has failed on 4 previous occasions. There has
 11 been no determination of cause, as yet. Until the cause has been pinpointed,
 12 the appropriate corrective action will be continued monitoring and investi-
 13 gation.
 14

15	E	1	0	0	NA	A	Operator Observation
7	8	9	10	11	12	13	14
FACILITY STATUS		% POWER		OTHER STATUS		METHOD OF DISCOVERY	
16	Z	Z	NA	NA	NA	NA	NA
7	8	9	10	11	12	13	14
ACTIVITY RELEASED		CONTENT OF RELEASE		AMOUNT OF ACTIVITY		LOCATION OF RELEASE	
17	0	0	0	Z	NA	NA	NA
7	8	9	10	11	12	13	14
PERSONNEL EXPOSURES NUMBER		TYPE		DESCRIPTION			
18	0	0	0	Z	NA	NA	NA
7	8	9	10	11	12	13	14
PERSONNEL INJURIES NUMBER		DESCRIPTION					
19	Z	NA	NA	NA	NA	NA	NA
7	8	9	10	11	12	13	14
LOSS OF OR DAMAGE TO FACILITY TYPE		DESCRIPTION					
20	Z	NA	NA	NA	NA	NA	NA
7	8	9	10	11	12	13	14
PUBLICITY ISSUED DESCRIPTION		NRC USE ONLY					
20	N	NA	NA	NA	NA	NA	NA
7	8	9	10	11	12	13	14

NAME OF PREPARER K. R. Wilson

PHONE: (704) 373-8197

LICENSEE EVENT REPORT

EXHIBIT A

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

01 | S | C | N | E | E | 1 | 2 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 3 | 4 | 1 | 1 | 1 | 1 | 4 | 5
7 8 9 14 15 25 26 30 37 38 47 48

CONT
01 | REPORT SOURCE | L | 6 | 0 | 5 | 0 | 0 | 0 | 2 | 6 | 9 | 7 | 0 | 3 | 2 | 2 | 7 | 8 | 8 | 0 | 4 | 2 | 1 | 7 | 8 | 9
7 8 60 61 68 69 74 75 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 | At 0721 on March 22, 1978, during normal operation, Oconee attempted to
03 | start Keowee Hydro Unit 2 which is a source of auxiliary power for the
04 | Oconee Nuclear Station. The unit failed to start due to an inoperable
05 | field flashing breaker. The unit was started without incident after an
06 | investigation had been completed. Keowee Unit 1 and other sources of
07 | auxiliary power for the station were available if needed so that no loss
08 | of emergency power was experienced. Thus public health and safety were not
7 8 9 endangered. 80

09 | SYSTEM CODE | E | E | 11 | CAUSE CODE | X | 12 | CAUSE SUBCODE | X | 13 | COMPONENT CODE | Z | Z | Z | Z | Z | 14 | COMP. SUBCODE | Z | 15 | VALVE SUBCODE | Z | 16
7 8 9 10 11 12 13 18 19 20
17 | LER/RO REPORT NUMBER | 7 | 8 | 21 22 | SEQUENTIAL REPORT NO. | 0 | 0 | 9 | 24 25 26 | OCCURRENCE CODE | 0 | 3 | 27 28 | REPORT TYPE | L | 30 31 | REVISION NO. | 0 | 32
ACTION TAKEN | X | 18 | FUTURE ACTION | A | 19 | EFFECT ON PLANT | Z | 20 | SHUTDOWN METHOD | Z | 21 | HOURS | 0 | 0 | 0 | 0 | 37 38 39 40 | ATTACHMENT SUBMITTED | Y | 23 | NPRO-4 FORM SUB. | Y | 24 | PRIME COMP. SUPPLIER | L | 25 | COMPONENT MANUFACTURER | Z | 9 | 9 | 9 | 26 47

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 | The field flashing breaker has failed on 5 previous occasions. There has.
11 | been no determination of cause, as yet. Until the cause has been pinpointed,
12 | the appropriate corrective action will be continued monitoring and investi-
13 | gation.
14 | _____
7 8 9

15 | FACILITY STATUS | E | 28 | % POWER | 1 | 0 | 1 | 29 | OTHER STATUS | NA | 30 | METHOD OF DISCOVERY | A | 31 | DISCOVERY DESCRIPTION | Operator observation | 32
7 8 9 10 11 12 13 44 45 46 80
16 | ACTIVITY CONTENT | Z | 33 | Z | 34 | AMOUNT OF ACTIVITY | NA | 35 | LOCATION OF RELEASE | NA | 36
7 8 9 10 11 44 45 80
17 | PERSONNEL EXPOSURES NUMBER | 0 | 0 | 0 | 37 | TYPE | Z | 38 | DESCRIPTION | NA | 39
7 8 9 11 12 13 80
18 | PERSONNEL INJURIES NUMBER | 0 | 0 | 0 | 40 | DESCRIPTION | NA | 41
7 8 9 11 12 80
19 | LOSS OF OR DAMAGE TO FACILITY TYPE | Z | 42 | DESCRIPTION | NA | 43
7 8 9 10 80
20 | PUBLICITY ISSUED | N | 44 | DESCRIPTION | NA | 45
7 8 9 10 80

NAME OF PREPARER K. R. Wilson

PHONE: (704) 373-8197