

04/05/78

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)
DISTRIBUTION FOR INCOMING MATERIAL

50-269/270/287

REC: OREILLY J P
NRC

ORG: PARKER W O
DUKE PWR

DOC DATE: 03/23/78
DATE RCVD: 03/23/78

DOCTYPE: LETTER NOTARIZED: NO
SUBJECT:

COPIES RECEIVED
LTR 1 ENCL 1

LICENSEE EVENT REPT (RD 50-269/78-003) ON 02/22/78 CONCERNING ATTEMPT TO
START KEOWEE HYDRO UNIT 2, SOURCE OF AUXILIARY PWR FOR SUBJECT FACILITY,
FAILED DUE TO AN INOPERABLE FIELD FLASHING BREAKER... W/ATT LER 78-003,
78-029 & 78-001.

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)

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SHAO**W/ENCL
KREGER/J. COLLINS**W/ENCL
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MIPC**W/3 ENCL
HOUSTON**W/ENCL
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VOLLMER/BUNCH**W/ENCL
ROSA**W/ENCL

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REGULATORY GUIDE 10.1

DISTRIBUTION: LTR 45 ENCL 45
SIZE: 1P+2P+3P

CONTROL NBR: 780950031

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

aoj

DUKE POWER COMPANY

POWER BUILDING
422 SOUTH CHURCH STREET, CHARLOTTE, N.C. 28242
RECEIVED DISTRIBUTION SERVICES UNIT

March 23, 1978

WILLIAM O. PARKER, JR.
VICE PRESIDENT
STEAM PRODUCTION

1978 MAR 31 PM 1 06
TELEPHONE: AREA 704
373-4083

US NRC
DISTRIBUTION SERVICES
BRANCH

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

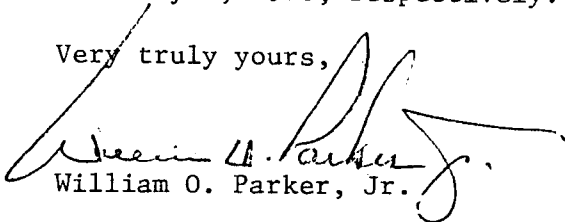
RE: Oconee Units 1, 2, and 3
Docket No. 50-269, -270, and -287

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-269/78-3.

Also attached are revised Licensee Event Reports submitted on two similar occurrences reported in Reportable Occurrence Reports RO-269/77-29 and RO-269/78-1, originally transmitted by my letters of January 18, and February 3, 1978, respectively.

Very truly yours,


William O. Parker, Jr.

KRW/pt

Attachment

cc: Director, Office of Management Information
and Program Control

Handwritten note: *Handwritten Document FILE COPY*

780950031

Handwritten initials: *A002
S
111*

DUKE POWER COMPANY
OCONEE UNIT 2

Report Number: RO-269/78-3

Report Date: March 23, 1978

Occurrence Date: February 22, 1978

Facility: Oconee Nuclear Station, Seneca, South Carolina

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

Conditions Prior to Occurrence: Unit 1 100% FP
Unit 2 100% FP
Unit 3 100% FP

Description of Occurrence:

At 1750, on February 22, 1978, when an attempt was made to start Keowee Hydro Unit 2, the unit's field flashing breaker failed to close. The unit was therefore inoperable, contrary to the requirements of Oconee Nuclear Station Technical Specification 3.7.1. The unit was started and successfully operated at 1752. The breaker and controls, wires and contacts within the breaker were inspected with no abnormalities discovered. The unit has successfully started on several subsequent occasions.

This type of incident has occurred on two previous occasions, which were reported in Reportable Occurrence Reports RO-269/77-29, and RO 269/78-1, transmitted by my letters of January 18, and February 3, 1978 respectively.

Apparent Cause of Occurrence:

The apparent cause of the incident was initially identified as a faulty relay within the field flashing breaker control system. The apparently faulty relay was replaced, along with another relay that had been arcing. After relay replacement, and during the investigation of this report, the breaker failed to operate again. Therefore, the exact cause of the breaker malfunction has not yet been determined. The breaker system is continuing to be observed to determine the cause of the incident.

Analysis of Occurrence:

The failure of the breaker to close caused Keowee Unit 2 to become temporarily inoperable. Two minutes after the initial unsuccessful attempt, the field flashing breaker successfully operated making Keowee Unit 2 fully operable. Throughout this period, the second Keowee Hydro unit was fully operable and available to supply emergency power to the station if required. The health and safety of the public were not endangered.

Corrective Action

Initially an inspection of the breaker and its controls was made with no defective components discovered.

During the investigation of this report two relays in the field flashing breaker control circuit were replaced. An extensive investigation is continuing in this area of concern to correct the breaker control system faults.

LICENSEE EVENT REPORT

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 57 58
 LICENSEE CODE LICENSE NUMBER LICENSE TYPE CAT 58

CONT
 01 | L | 6 | 0 | 5 | 0 | 0 | 0 | 2 | 6 | 9 | 7 | 0 | 2 | 2 | 2 | 7 | 8 | 8 | 0 | 3 | 2 | 3 | 7 | 8 | 9
7 8 60 61 68 69 74 75 80
 REPORT SOURCE DOCKET NUMBER EVENT DATE REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 | At 1750 on February 22, 1978, during normal operation, Oconee attempted to
 03 | start Keowee Hydro Unit 2 which is a source of auxillary power for the Oconee
 04 | Nuclear Station. The unit failed to start due to an inoperable field flashing
 05 | breaker. The unit started on the second and on subsequent attempts. Keowee
 06 | Unit 1 and other sources of auxiliary power for the station were available if
 07 | needed so that no loss of emergency power was experienced. Thus public health
 08 | and safety were not endangered.

09 | E | E | 11 | X | 12 | X | 13 | Z | Z | Z | Z | Z | Z | 14 | Z | 15 | Z | 16 |
9 10 11 12 13 18 19 20
 SYSTEM CCODE CAUSE CODE CAUSE SUBCODE COMPONENT CODE COMP. SUBCODE VALVE SUBCODE
 17 | 7 | 8 | 17 | 0 | 0 | 3 | 17 | 0 | 3 | 17 | L | 17 | 0 | 17 |
21 22 23 24 26 27 28 29 30 31 32
 LER/RO REPORT NUMBER EVENT YEAR SEQUENTIAL REPORT NO. OCCURRENCE CODE REPORT TYPE REVISION NO.
 18 | X | 18 | A | 19 | Z | 20 | 0 | 0 | 0 | 22 | 0 | 0 | 0 | 22 | Y | 23 | Y | 24 | L | 25 | Z | 9 | 9 | 9 | 26 |
33 34 35 36 37 40 41 42 43 44 47
 ACTION TAKEN FUTURE ACTION EFFECT ON PLANT SHUTDOWN METHOD HOURS ATTACHMENT SUBMITTED NPRD-4 FORM SUB. PRIME COMP. SUPPLIER COMPONENT MANUFACTURER

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 | The breaker and it's control system were initially inspected with no
 11 | apparent abnormalities discovered. During subsequent investigations the
 12 | breaker failed on three other occasions. Faulty relays were at first suspect
 13 | but the third failure occurred after two relays were replaced. The apparent
 14 | cause has not been determined but extensive investigation is continuing.

15 | E | 28 | 1 | 0 | 0 | 0 | 29 | NA | 30 | A | 31 | Operator Observation | 32 |
7 8 9 10 12 13 44 45 46
 FACILITY STATUS % POWER OTHER STATUS METHOD OF DISCOVERY DISCOVERY DESCRIPTION

16 | Z | 33 | Z | 34 | NA | 35 | NA | 36 |
7 8 9 10 11 44 45
 ACTIVITY CONTENT RELEASED OF RELEASE AMOUNT OF ACTIVITY LOCATION OF RELEASE

17 | 0 | 0 | 0 | 37 | Z | 38 | NA | 39 |
7 8 9 11 12 13 44 45
 PERSONNEL EXPOSURES NUMBER TYPE DESCRIPTION

18 | 0 | 0 | 0 | 40 | NA | 41 |
7 8 9 11 12 13 44 45
 PERSONNEL INJURIES NUMBER DESCRIPTION

19 | Z | 42 | NA | 43 |
7 8 9 10 11 12 44 45
 LOSS OF OR DAMAGE TO FACILITY TYPE DESCRIPTION

20 | N | 44 | NA | 45 |
7 8 9 10 11 12 44 45
 PUBLICITY ISSUED DESCRIPTION

NAME OF PREPARER K. R. Wilson

PHONE: (704) 373-8197

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