

04/05/78

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

REC: OREILLY J P  
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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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T & E\*\*W/2 ENCL  
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KNIGHT\*\*W/ENCL  
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EISENHUT\*\*W/ENCL  
SHAO\*\*W/ENCL  
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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  
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TIC\*\*W/ENCL  
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ACRS CAT B\*\*W/16 ENCL

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REGULATORY GUIDE 10.1

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

CONTROL NBR: 780950031

\*\*\*\*\* THE END \*\*\*\*\*

ao4  
T

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

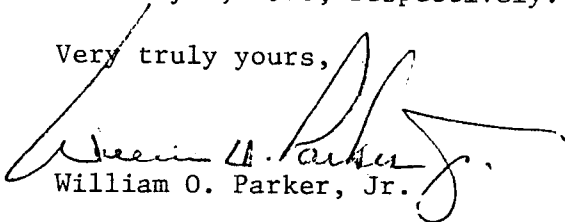
RE: Oconee Units 1, 2, and 3  
Docket No. 50-269, -270, and -287

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 Distribution 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

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

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  
17 | LER/RO REPORT NUMBER | 7 | 8 | 21 | 22 | 23 | SEQUENTIAL REPORT NO. | 0 | 0 | 3 | 24 | 26 | 27 | OCCURRENCE CODE | 0 | 3 | 28 | 29 | REPORT TYPE | L | 30 | 31 | REVISION NO. | 0 | 32 |  
18 | X | 18 | A | 19 | Z | 20 | Z | 21 | 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  
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

16 | Z | 33 | Z | 34 | NA | 35 | NA | 36  
7 8 9 10 11 44 45 46

17 | 0 | 0 | 0 | 37 | Z | 38 | NA | 39  
7 8 9 10 11 12 13

18 | 0 | 0 | 0 | 40 | NA | 41  
7 8 9 10 11 12

19 | Z | 42 | NA | 43  
7 8 9 10 11 12

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

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



