

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

DOCDATE: 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 KEOWEE 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)

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~~IC & E**W/2 ENCL~~
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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

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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

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
5/11

DUKE POWER
STEAM SERVICES

1978 APR 28 PM 12 15

REGISTRATION
SERVICES UNIT

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

01 SCNEE1 200-000000-00 341111 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 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

CON'T
01 REPORT SOURCE L 6 05000269 7 031478 8 042178 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 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

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
09 endangered. 80

09 SYSTEM CODE EE (11) CAUSE CODE X (12) CAUSE SUBCODE X (13) COMPONENT CODE ZZZZZZ (14) COMP. SUBCODE Z (15) VALVE SUBCODE Z (16)
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 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

17 LER/RO REPORT NUMBER 78 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

ACTION TAKEN FUTURE ACTION EFFECT ON PLANT SHUTDOWN METHOD HOURS ATTACHMENT SUBMITTED NPRO-4 FORM SUB. PRIME COMP. SUPPLIER COMPONENT MANUFACTURER
X (18) A (19) Z (20) Z (21) 0000 (22) Y (23) Y (24) L (25) Z999 (26)
33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

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 FACILITY STATUS E (28) % POWER 100 (29) OTHER STATUS NA (30) METHOD OF DISCOVERY A (31) DISCOVERY DESCRIPTION Operator Observation (32)
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 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

16 ACTIVITY CONTENT Z (33) Z (34) AMOUNT OF ACTIVITY NA (35) LOCATION OF RELEASE NA (36)
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 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

17 PERSONNEL EXPOSURES NUMBER 000 (37) TYPE Z (38) DESCRIPTION NA (39)
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 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

18 PERSONNEL INJURIES NUMBER 000 (40) DESCRIPTION NA (41)
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 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

19 LOSS OF OR DAMAGE TO FACILITY TYPE Z (42) DESCRIPTION NA (43)
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 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

20 PUBLICITY ISSUED N (44) DESCRIPTION NA (45)
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 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

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

LICENSEE EVENT REPORT

EXHIBIT A

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

01 S C N E E 1 2 0 0 - 0 0 0 0 0 0 3 4 1 1 1 1 4 5

LICENSEE CODE 14 15 LICENSE NUMBER 25 26 LICENSE TYPE 30 31 CAT 58

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

DOCKET NUMBER 60 61 EVENT DATE 68 69 REPORT DATE 74 75

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

09 endangered.

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

LER/RO REPORT NUMBER 17 7 8 SEQUENTIAL REPORT NO. 0 0 9 OCCURRENCE CODE 0 3 REPORT TYPE L REVISION NO. 0

ACTION TAKEN X 18 FUTURE ACTION A 19 EFFECT ON PLANT Z 20 SHUTDOWN METHOD Z 21 HOURS 0 0 0 0 ATTACHMENT SUBMITTED Y 23 NRC-4 FORM SUB. Y 24 PRIME COMP. SUPPLIER L 25 COMPONENT MANUFACTURER Z 9 9 9 26

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

FACILITY STATUS E 28 % POWER 1 0 1 29 OTHER STATUS NA 30 METHOD OF DISCOVERY A 31 DISCOVERY DESCRIPTION Operator observation 32

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

PERSONNEL EXPOSURES NUMBER 0 0 0 37 TYPE Z 38 DESCRIPTION NA 39

PERSONNEL INJURIES NUMBER 0 0 0 40 DESCRIPTION NA 41

LOSS OF OR DAMAGE TO FACILITY TYPE Z 42 DESCRIPTION NA 43

PUBLICITY ISSUED N 44 DESCRIPTION NA 45

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

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