

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:8009120436 DOC.DATE: 80/09/05 NOTARIZED: NO  
 FACIL:50-269 Oconee Nuclear Station, Unit 1, Duke Power Co.  
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 Region 2, Atlanta, Office of the Director

DOCKET #  
 05000269

SUBJECT: LER 80-025/03L-0:on 800807,keowee hydro unit 2 failed to close-in automatically into overhead line.Caused by dirty contacts on relay K5.Contacts cleared.Replacement relays ordered,although not required for safe operation.

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 TITLE: Incident Reports

NOTES:M Cunningham:all amends to FSAR & changes to Tech Specs. 05000269

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	REID,R. 04	3	3			
INTERNAL:	A/D COMP&STRU06	1	1	A/D ENV TECH 07	1	1
	A/D MATL & QU08	1	1	A/D OP REACT009	1	1
	A/D PLANT SYS10	1	1	A/D RAD PROT 11	1	1
	A/D SFTY ASSE12	1	1	A/D TECHNOLOG13	1	1
	ACC EVAL BR 14	1	1	AEOD	2	2
	ASLBP/J.HARD	1	1	AUX SYS BR 15	1	1
	CHEM ENG BR 16	1	1	CONT SYS BR 17	1	1
	CORE PERF BR 18	1	1	D/DIR,HUM FAC19	1	1
	DIR,ENGINEERI20	1	1	DIR,HUM FAC S21	1	1
	DIR,SYS INTEG22	1	1	EFF TR SYS BR23	1	1
	EMERG PREP 24	1	1	EQUIP QUAL BR25	1	1
	GEOSCIENCES 26	1	1	HUM FACT ENG 27	1	1
	HYD/GEO BR 28	1	1	I&C SYS BR 29	1	1
	I&E 05	2	2	JORDAN,E./IEI	1	1
	LIC GUID BR 30	1	1	LIC QUAL BR 31	1	1
	MATL ENG BR 32	1	1	MECH ENG BR 33	1	1
	MPA	3	3	NRC PDR 02	1	1
	OP EX EVAL BR34	3	3	OR ASSESS BR 35	1	1
	POWER SYS BR 36	1	1	PROC/TST REV 37	1	1
	QA BR 38	1	1	RAD ASSESS BR39	1	1
	REACT SYS BR 40	1	1	<u>REG FILE</u> 01	1	1
	REL & RISK A 41	1	1	SFTY PROG EVA42	1	1
	SIT ANAL BR 43	1	1	STRUCT ENG BR44	1	1
	SYS INTERAC B45	1	1			
EXTERNAL:	ACRS 46	16	16	LPDR 03	1	1
	NSIC 05	1	1	TERA:DOUG MAY	1	1

SEP 15 1980

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DUKE POWER COMPANY  
OCONEE NUCLEAR STATION

Report Number: RO-269/80-25

Report Date: September 5, 1980

Occurrence Date: August 7, 1980

Facility: Oconee Nuclear Station, Seneca, South Carolina

Identification of Occurrence: Keowee Unit 2 Declared Inoperable Due to Failure  
to Start From Control Room

Conditions Prior to Occurrence:

Oconee 1	100%
Oconee 2	59%
Oconee 3	100%

Description of Occurrence:

On August 7, 1980, at approximately 0927 hours, Keowee Hydro Station Unit 2 failed to close into the overhead feeder line automatically when tested from the control room. Manual operation was normal. Unit 1 was immediately declared inoperable and Keowee Unit 1 was changed to underground and verified operable. This constitutes operation in a degraded mode per Technical Specification 3.7.2 and is thus reportable pursuant to Technical Specification 6.6.2.1.b(2).

Apparent Cause of Occurrence:

The failure of Unit 2 to start from the Control Room was a result of the dirty contacts on Relay K5, a Struthers-Dunn relay. After cleaning the contacts all functions returned to normal. Additional relays inside the regulator were also inspected, but no additional maintenance was required. There has been no history of significant failures of these relays.

Analysis of Occurrence:

Keowee Unit 2 was being tested for operability before Unit 1 was to be removed from service for preventive maintenance and performance testing. Keowee Unit 1 was started and verified operable promptly after Unit 2 was declared inoperable. Unit 2 was repaired and returned to service at 1724 on August 7, 1980, approximately within 8 hours of the incident and hence well within the 72 hours permitted by Technical Specification 3.7.2. Since Keowee Unit 1 was available through the underground feeder, Oconee's requirement for emergency power was met. Thus, this incident was of no significance with respect to safe operation, and the health and safety of the public were not affected.

Corrective Action:

The dirty contacts on relay K5 were cleaned and inspected for corrosion. Since no appreciable corrosion was present, the relay was returned to service. The inspection of additional relays inside the regulator found no additional relays requiring service. The operation of the voltage regulator was returned to normal after the cleaning of relay K5.

Replacement relays have been ordered with the intent of replacing all of the relays in the regulator. Although this action is not required for safe operation it is felt that such action will provide additional insurances against future incidents of this type.

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 14 15 25 26 30 37 38  
 LICENSEE CODE LICENSE NUMBER LICENSE TYPE CAT 58

CONT  
 01 | R | E | P | O | R | T | S | O | U | R | C | E | L | 6 | 0 | 5 | 0 | 0 | 0 | 2 | 6 | 9 | 7 | 0 | 8 | 0 | 7 | 8 | 0 | 8 | 0 | 9 | 0 | 5 | 8 | 0 | 9  
60 61 68 69 74 75 80  
 REPORT SOURCE DOCKET NUMBER EVENT DATE REPORT DATE

02 | At 0927 on August 7, 1980, Keowee Hydro Unit 2 was declared inoperable when  
 03 | it failed to close in automatically into the overhead line. Keowee Unit 1 was  
 04 | swapped to underground and declared operable. Unit 2 was repaired and declared  
 05 | operable. Unit 2 was repaired and declared operable within 8 hours, well with-  
 06 | in the 72 hours permitted by Technical Specification 3.7.2. Thus, this  
 07 | incident was of no significance with respect to safe operation, and the health  
 08 | and safety of the public were not affected.

09 | E | A | 11 | E | 12 | X | 13 | R | E | L | A | Y | X | 14 | A | 15 | Z | 16  
9 10 11 12 13 14 15 16 17 18 19 20  
 SYSTEM CODE CAUSE CODE CAUSE SUBCODE COMPONENT CODE COMP. SUBCODE VALVE SUBCODE  
 17 | L | E | R / R | O | R | E | P | O | R | T | N | U | M | B | E | R | 8 | 0 | 21 | 0 | 2 | 5 | 24 | 0 | 3 | 28 | L | 30 | 0 | 32  
21 22 23 24 25 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 | Z | 21 | 0 | 0 | 0 | 0 | 22 | Y | 23 | Y | 24 | L | 25 | 5 | 4 | 4 | 0 | 26  
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  
 ACTION TAKEN FUTURE ACTION EFFECT ON PLANT SHUTDOWN METHOD HOURS ATTACHMENT SUBMITTED NPRO-4 FORM SUB. PRIME COMP. SUPPLIER COMPONENT MANUFACTURER

10 | This incident was caused by dirty contacts on Relay K5. The contacts were  
 11 | cleared. Additional relays were inspected but further maintenance was not  
 12 | required. The automatic initiation was verified operable and all functions were  
 13 | returned to normal. Replacement relays have been ordered. Although this  
 14 | action is not required for safe operation, such action could provide additional  
 15 | insurances against reoccurrences of similar incidents.

15 | E | 28 | 1 | 0 | 0 | 29 | NA | 30 | 31 | Test for verification of operability.  
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  
 FACILITY STATUS % POWER OTHER STATUS METHOD OF DISCOVERY DISCOVERY DESCRIPTION

16 | Z | 32 | Z | 34 | NA | 35 | 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  
 ACTIVITY CONTENT RELEASED OF RELEASE AMOUNT OF ACTIVITY LOCATION OF RELEASE

17 | 0 | 0 | 0 | 37 | Z | 38 | 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  
 PERSONNEL EXPOSURES NUMBER TYPE DESCRIPTION

18 | 0 | 0 | 0 | 40 | 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  
 PERSONNEL INJURIES NUMBER DESCRIPTION

19 | Z | 42 | 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  
 LOSS OF OR DAMAGE TO FACILITY TYPE DESCRIPTION

20 | N | 44 | 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  
 PUBLICITY ISSUED DESCRIPTION

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