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 FACIL: 50-269 Oconee Nuclear Station, Unit 1, Duke Power Co.  
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 RECIP. NAME RECIPIENT AFFILIATION  
 Region 2, Atlanta, Office of the Director

DOCKET #  
 05000269

SUBJECT: LER 79-027/03L-0 on 790805: one of two 4160-volt main feeder  
 busses was isolated when Breaker B1T-1 tripped for no  
 apparent reason. Tested satisfactorily when removed. Cause  
 possibly related to simultaneous problems w/DC power bus

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 TITLE: Incident Reports

NOTES: M CUNNINGHAM - All AMENDMENTS TO FSAR & CHANGES TO SPEC

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	09 I&E	2	2	11 MPA	3	3
	14 TA/EDO	1	1	15 NOVAK/KNIEL	1	1
	16 EEB	1	1	17 AD FOR ENGR	1	1
	18 PLANT SYS BR	1	1	19 I&C SYS BR	1	1
	20 AD PLANT SYS	1	1	22 REAC SAFT BR	1	1
	23 ENGR BR	1	1	24 KREGER	1	1
	25 PWR SYS BR	1	1	26 AD/SITE ANAL	1	1
	27 OPERA LIC BR	1	1	28 ACIDENT ANLYS	1	1
	29 AUX SYS BR	1	1	E JORDAN/IE	1	1
	HANAUER, S.	1	1	STS GROUP LEADR	1	1
	TMI-H STREET	1	1			
TERNAL:	03 LPDR	1	1	04 NSIC	1	1
	29 ACRS	16	16			

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DUKE POWER COMPANY  
Oconee Unit 1

Report Number: RO-269/79-27

Report Date: September 4, 1979

Occurrence Date: August 5, 1979

Facility: Oconee Unit 1, Seneca, South Carolina

Identification of Occurrence: Main Feeder Bus Isolated

Conditions Prior to Occurrence: Hot Shutdown

Description of Occurrence:

At 0455 on August 5, 1979, one of the two 4160 volt main feeder buses from the startup transformer for Unit 1 was isolated when breaker BlT-1 tripped for no apparent reason. The breaker was reset, and administrative procedures were initiated to assure that the breaker malfunction was investigated and appropriate repairs made. At 1655 on the same day the breaker again tripped and was reset. On August 9, breaker BlT-1 was removed from service and tested several times to determine the cause for the malfunctions, but the breaker operated properly each time. No cause for the malfunctions could be determined. The breaker has operated properly since that time.

Apparent Cause of Occurrence:

One of the two 4160 volt main feeder buses was isolated on two occasions when breaker BlT-1 tripped for no apparent reason. The breaker operated properly when removed from service and tested. However, at approximately the same time that the malfunctions occurred, problems were being experienced with a ground on the DC power bus. It is possible that these problems contributed to tripping breaker BlT-1, since the breaker utilizes a DC operated trip coil.

Analysis of Occurrence:

Oconee Nuclear Station Technical Specification 3.7.2(d)1 allows one 4160 volt main feeder bus to be inoperable for up to 24 hours while the affected unit is at hot standby or power operation. The breaker was reset after it tripped each time, satisfying the requirements of Technical Specification 3.7.2. In addition, the second of the two 4160 volt main feeder buses remained energized when breaker BlT-1 tripped. However, the inoperability of the breaker constituted operation in a degraded mode, and must therefore be reported pursuant to Technical Specification 6.6.2.1.b(2), although the incident was of no significance with respect to safe operation, and the health and safety of the public were not affected.

Corrective Action:

The breaker was reset immediately after it tripped each time. It was removed from service, tested several times, and determined to be operating properly. Although no definite cause for the malfunctions could be determined, they may have resulted from problems being experienced with a ground on the DC power bus. Therefore, it is considered that no further corrective measures are necessary at this time.

## LICENSEE EVENT REPORT

EXHIBIT A

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

0	1	S	C	N	E	E	1	2	0	0	-	0	0	0	0	0	0	3	4	1	1	1	1	4		5																	
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REPORT SOURCE														DOCKET NUMBER										EVENT DATE										REPORT DATE									

## EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

012 At 0455 on August 5, 1979, Unit 1 was at hot shutdown when one of the two 4160  
013 volt main feeder buses from the startup transformer was isolated as a result of  
014 a breaker tripping for no apparent reason. One feeder bus is permitted to be  
015 inoperable for up to 24 hours, and the second bus remained energized. There-  
016 fore, this incident is considered to be of no significance with respect to  
017 safe operation, and the health and safety of the public were not affected.

0	9	E	B	X	Z	C	K	T	B	R	K	A	Z	7	9	0	2	7	0	3	L	0			
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SYSTEM CODE		CAUSE CODE		CAUSE SUBCODE		COMPONENT CODE						COMP. SUBCODE		VALVE SUBCODE		EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE		REPORT TYPE		REVISION NO.	
11		12		13		14						15		16		21		22		23		24		25	
17		18		19		20		21		22		23		24		25		26		27		28		29	
ACTION TAKEN		FUTURE ACTION		EFFECT ON PLANT		SHUTDOWN METHOD		HOURS		ATTACHMENT SUBMITTED		APPROV. FORM SUB.		PRIME COMP. SUPPLIER		COMPONENT MANUFACTURER									
18		19		20		21		22		23		24		25		26									
X		Z		Z		Z		0 0 0 0		Y		N		L		W 1 2 0									
23		24		25		26		27		28		29		30		31									
CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)		28		29		30		31		32		33		34		35									

110 Although the exact cause of the occurrence could not be determined, at the  
111 time the breaker tripped problems were being experienced with a DC power bus  
112 ground which may have affected the breaker's DC operated trip coil. The breaker  
113 was tested, determined to be operating properly, and reset.

1	5	G	0	0	0	NA	A	Operator observation	
7	8	9	10	11	12	13	14	15	
FACILITY STATUS		3 POWER		OTHER STATUS		METHOD OF DISCOVERY		DISCOVERY DESCRIPTION	
28		29		30		31		32	
1		6		Z		Z		NA	
7	8	9	10	11	12	13	14	15	16
ACTIVITY CONTENT		RELEASED OF RELEASE		AMOUNT OF ACTIVITY		LOCATION OF RELEASE		26	
33		34		35		36		37	
1		7		0		0		Z	
7	8	9	10	11	12	13	14	15	16
PERSONNEL EXPOSURES		NUMBER		TYPE		DESCRIPTION		39	
37		38		39		40		41	
1		3		0		0		0	
7	8	9	10	11	12	13	14	15	16
PERSONNEL INJURIES		NUMBER		DESCRIPTION		41		42	
40		41		42		43		44	
1		3		Z		NA		43	
7	8	9	10	11	12	13	14	15	16
LOSS OF OR DAMAGE TO FACILITY		TYPE		DESCRIPTION		43		44	
42		43		44		45		46	
1		3		Z		NA		43	
7	8	9	10	11	12	13	14	15	16
PUBLICATION		ISSUED		DESCRIPTION		45		46	
44		45		46		47		48	
2		0		N		NA		44	
7	8	9	10	11	12	13	14	15	16

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