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# Southern Nuclear Operating Company

the southern electric system

10 CFR 50.73

February 18, 1992

Docket No. 50-364

U. S. Nuclear Regulatory Commission ATTN: Document Control Desk Washington, DC 20555

> Joseph M. Farley Nuclear Plant - Unit 2 Licensee Event Report No. LER 92-001-00

Gentlemen:

Joseph M. Farley Nuclear Plant, Unit 2, Licensee Event Report No. LER 92-301-00 is being submitted in accordance with 10 CFR 50.73. If you have any questions, please advise.

Respectfully submitted,

J. D) Woodard

JDW/BHW:map 1804

Enclosure

cc: Mr. S. D. Ebneter Mr. G. F. Maxwell

NRC, Form 366, (6-89)		-	U.S. NUCLEAR REGULA	TORY COMMISSION		OHB NO. 3150-0104
	LICENSEE EV	ENT RE	PORT (LER)		EXPIR	ES: 4/30/97
FECTLITY NAME (1)	Joseph M. F	arley Nuc	lear Plant - U	nit 2	DOCKET NUMBE	
fillE (4) Marmal Reactor	Trip Due To A S	ervice Wa	ter Leak On An	Exciter Cooling	Water Line	1 107 1
EVENT DATE (5)	LER NUMBER	(6)	REPORT DATE (7	) OTH	ER FACILITIES	INVOLVED (8)
MONTH DAY YEAR	YEAR SEQ NUM	REV	MONTH DAY YEAR	FACILITY	NAMES	DOCKET NUMBER(S) O 5 O O O
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OPERATING 1	THIS REPORT IS SU	BMITTED PL	RSUANT TO THE RI	EQUIREMENTS OF 17	CFR (31)	
. WODE (A) 1	20,402(b)		20.465(6)	X 50.73(a	(2)(1v)	73,71(b)
POWER LEVEL 65	20.405(a)(1)(i	- Annual Contract of the Contr	50.36(c)(1)	50.73(a	)(2)(V)	73.7.(c)
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	20.405(a)(1)(i	1	50.73(a)(2)(i)	50.73(a	(2)(viii)(A)	Abstract below)
	20,405(a)(1)(1 20,405(a)(1)(v	)	50.73(a)(2)(ii) 50.73(a)(2)(iii	50.73(a	)(2)(v(i()(8) )(2)(x)	
NAME		LICENSE	CONTACT FOR TH	IS LER (12)		
NAME					AREA CODE	LEPHONE NUMBER
To M. Malana Plan	Comment Bases	March Street March	N			
D. N. Porey, Ge	neral Manager -			ESCRIBED IN THIS	205	899-5156
		REPORT			-	Tarray
CAUCE SYSTEM COMPI	ONENT TURER	TO NPRDS	CAL	ISE SYSTEM COMPONE	NT MANUFAC- TURER	REPORT TO MPROS
	SUPPLEMENT	AL REPORT	EXPECTED (14)		-	MONTH DAY IYEAR
					EXPECTED SUBMISSION	
YESCIT yes, co	omplete EXPECTED S	UBMISSION	DATE) X NO		DATE (15)	

At 0731 in 1-22-92 a manual reactor trip was initiated due to a service water (SW) leak on a main generator exciter cooling water line. Because of the leak, the unit was being ramped down at a rate of 25MW/min and was at 65 percent power when the trip was initiated. The leak was attributed to a gasket that was damaged during installation when the exciter cooling water lines were reassembled as part of the Fall 1990 refueling outage.

This event was caused by improper gasket installation due to lack of detailed information on reassembly of Victaulic couplings in the exciter cooler inspection procedure. The procedure is in the process of being revised to include specific instructions to facilitate proper mating and assembly of Victaulic couplings.

All accessible gaskets in the north (upper and lower) exciter coolers were inspected and replaced and verified to be leak free. All gaskets in the north and south coolers will be replaced during the March 1992 Unit 2 outage. Also, during each 54 month exciter inspection, the associated gaskets will be replaced.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION			APPROVED ONE NO 3150-0164 EXPIRES: 4/30/92			
FACILITY NAME (1)	DOCKET NUMBER (2)	LES	R NUMBER (5)	PAGE (3)		
		YEAR	SEQ NUM REV			
Joseph M. Farley Nuclear Plant - Unit 2	05000364	9.2	001 00	2 OF 3		

# Plant and System Identification

Westinghouse - Pressurized Water Reactor Energy Incustry Identification System codes are identified in the text as [XX].

# Summary of Event

At 0731 on 1-22-92 a manual reactor trip was initiated due to a service water (SW) leak on a main generator exciter cooling water line. Because of the leak, the unit was being ramped down at a rate of 25MW/min and was at 65 percent power when the trip was initiated. The leak was attributed to a gasket that was damaged during installation when the exciter cooling water lines were reassembled as part of the Tall 1990 refueling outage.

#### Description of Event

At approximately 0645 on 1-22-92, the on-call Operations Manager was informed of a problem with the main generator exci or [KB]. He proceeded to the exciter and noticed water coming from between the exciter housing and the floor. Also, water was dripping from a cover plate on the upper section of the housing cover. Looking through the inspection window on the exciter housing, water could be seen streaming down the inside of he enclosure housing.

The decision was made to begin reducing power, from full power, in preparation to remove the generator and exciter from service. At the same time discussions were initiated with Wastinghouse. At approximately 0730, with the unit at 65 percent power and based on recommendations from Westinghouse, the decision was made to manually trip the reactor to divert possible damage to the generator and exciter. This was accomplished at 0731.

Following the reactor trip, the operators implemented FNP-2-EEP-0.0 ("Reactor Trip or Safety Injection") and FNP-2-ESP-0.1 ("Reactor Trip Response"), ensuring the unit was safely in Mode 3 (Hot Standby).

Thorough visual inspections and electrical tests were performed on the exciter. The results of these inspections and tests revealed no damage to the exciter by moisture intrusion.

### Cause of Event

This event was caused by improper gasket installation due to lack of detailed information on reassembly of victalia couplings in the exciter cooler inspection procedure. The procedure is in the process of being revised to include specific instructions to facilitate proper mating and assembly of Victaulic couplings.

LICENSEE EVENT REPORTEXT CONTINUATION	NUCLEAR REGULATORY COMMISSION  RT (LER)  N	APPROVED ONB NO 3150-0104 EXPIRES: 4/30/92
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Joseph M. Farley Nuclear Plant - Unit 2	05000364	92 001 00 3 0 3

# Reportability Analysis and Safety Assessment

This event is reportable because of the manual actuation of the reactor protection system. After the trip, the following safety systems operated as designed:

- main feedwater was isolated by automatic closure of the flow control valves and bypass valves,
- auxiliary feedwater pumps started automatically and provided flow to the steam generators,
- source range nuclear detectors energized automatical /, and pressurizer heaters and spray valves operated automatically as required to maintain system pressure.

There was no effect on the health and safety of the public.

#### Corrective Action

The procedure, EXCMCHR1, "Reassembly of Exciter," is in the process of being reviced to include specific instructions to facilitate proper mating and assembly of Victaulic couplings. The revision will be complete by 04-01-92 and is applicable to both Unit 1 and Unit 2.

All accessible gaskets in the north (upper and lower) exciter coolers were inspected and replaced and verified to be leak free. All gaskets in the north and south coolers, including those mentioned above, will be replaced during the March 1992 Unit 2 outage.

In addition, the Farley Nuclear Plant Modular Performance Program is being revised to require the exciter cooler service water coupling gaskets to be replaced during each 54 month exciter inspection. The revision will be completed by 05-01-92.

#### Additional Information

No similar LER's have been submitted by Farley Nuclear Plant.

This event would not have been more severe if it had occurred under different operating conditions.

The unit was returned to power operation at 2035 on 1-23-01.