NRC Form													U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO. 3150-0104 EXPIRES. 8/31/88									
FACILITY	NAME (1	11						_							DOC	KET NUM	BER	(2)	-		PA	GE (3)
	OOSCPII III I I II I I I I I I I I I I I I													0	5 0	0	0 13	1 6	14	1 01	F 013	
TITLE (4)	Un	it	Sh	ut								in Of	Charg	ing								1 414
EVE	NT DATE						UMBER				PORT DAT				R FAC	ILITIES I	VVOL	VED I	1)	-		
MONTH	DAY	YEA	(A	YEA	i P		UENTIAL		REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NA			AMES			T NUN	SI		
		-			-			-										0 5 0 0			0	1 1
0 7	1 7	8	6	8	6	0	0 9	-	0 0	q 8	1 8	8 6						0 15	510	10	0	
OPE	RATING			THIS	REPOR	TISS	UBMITTE	D PUI	RSUANT 1	O THE R	EQUIREM	ENTS OF	0 CFR 8: 7	Check one or man	e of th	ie fallowing	27 (11					1
	MODE (9) 1			20.402(b)						20.405	(e)			50.73(e)(2)(iv)	1			73.71(b)				
POWER)	50.36(e)(1)					50 73(a)(2)(y)						73.71(c					
LEVE!	1101 0 9 9			0 9 9 20 405(*)(1)(ii)					50 36(c)(2) 50 73(a)(2)(vii)							-	OTHER (Specify in Abstract					
					20.405	(a)(1)()	6)		XX 50.73(a)(2)(i) 50.73(a)(2)(v						i)(A)			below and in Text NRC Form 366A)				
					20.405	(a)(1)(i	v)		50.73(e)(2)(u)					50.73(a)(2)(viii)(B)								
					20.405	(m)(1)(y	()			50.73((2)(iii)			50.73(a)(2)(x)								
									L,	ICENSEE	CONTACT	T FOR THE	S LER (12)									
NAME													11					TELEPH	HONE N	UMB	EP	
	.1	D	W	000	tard	G	ener	1	Manar	ior -	Nuc	lear I	Plant			AREA CO	DE					
	U.	0.	14	000	ra r u	, 0	CHELL	2.1	riarias	101	inuc	icui i	Tunt			2 0	5	819	19	-	5 1	1516
						CO	MPLETE	ONE	LINE FOR	EACH C	OMPONEN	T FAILUR	EDESCRIBE	ED IN THIS REPO	ORT I	13)				-		
CAUSE	SYSTEM	YSTEM COMPONENT MANUFAC P				ORTABLE NPROS				SYSTEM	EM COMPONENT		MANUFAC- TURER		REPORTABLE TO NPPDS							
χ	Q B	М	0 1		W	1	210		Υ							1.1						
	1															4.4						
						S	UPPLEME	NTAL	L REPORT	EXPECT	ED (14)					EVD	ECTE	5	MO	NTH	DAY	YEAR
											_					SUBN	11551C	3 tv.				

At 0638 on 7-17-86, during normal operation at 99% reactor power, the 28 charging pump tripped. Since the 2C charging pump had been removed from service previously for maintenance, only one operable charging pump existed which was not sufficient to meet the Technical Specification requirements. It was subsequently determined that repairs could not be completed on either inoperable charging pump before the 72 hour Limiting Condition for Operation (LCO) period would expire. The decision was made to shut the unit down; this decision was made as soon as it could be determined that the repair time would exceed the LCO period. A controlled power reduction was begun at 2216 on 7-17-86 and cold shutdown (Mode 5) was reached at 1235 on 7-19-86.

The 2C charging pump was returned to service at 1124 on 7-21-86 following repairs. The unit resumed power operation on 7-22-86.

8608220317 860818 PDR ADDCK 05000364

ABSTRACT (Limit to 1400 spaces i.e. approximately fifteen single space typewritten lines.

JE27

\$100.00	William and Assess	700.00
DIMEC	rorm	366A
Feb. 1915		

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104 EXPIRES: 8/31/88

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)			
Farley Nuclear Plant		YEAR SEQUENTIAL REVISION NUMBER NUMBER				
Unit 2	0 5 0 0 0 3 6 4	86-01019-00	0 2 OF 0 13			

TEXT (If more space is ringuired, use additional NRC Form 366A's) (17)

Plant and System Identification:

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

Summary of Event

At 0638 on 7-17-86, during normal operation at 99% reactor power, the 2B charging pump [CB] tripped. Since the 2C charging pump had been removed from service previously for maintenance, one train of charging was inoperable thereby not meeting Technical Specification requirements. It was subsequently determined that repairs could not be completed on either inoperable charging pump before the 72 hour Limiting Condition for Operation (LCO) period would expire. The decision was made to shut the unit down. A controlled power reduction was begun at 2216 on 7-17-86 and cold shutdown (MODE 5) was reached at 1235 on 7-19-86.

Description of Event

There are three charging pumps for each unit at FNP. One pump is permanently aligned to each of the two trains and the B pump can be aligned to either train. The charging pumps also serve as high-head safety injection pumps and Technical Specifications require that there be an operable pump in each train.

On 7-17-86, the unit was operating normally at 99% reactor power and maintenance was being performed on the 2C charging pump. The 2B charging pump was aligned to the B train and was running and supplying normal charging and reactor coolant pump seal injection water. At 0638, the 2B charging pump tripped. The 2A charging pump was started manually and the actions of FNP-2-AOP-16.0 (CVCS Malfunction) were performed. An investigation revealed that the breaker [EB] for the 2B charging pump had opened automatically due to a ground fault. Further, it was found that there was low resistance from the motor windings to ground and there was evidence of arcing in the motor. It was decided to return the motor to the vendor for repair. The failure of the 2B charging pump motor was unrelated to the maintenance that was being performed on the 2C charging pump.

One train of charging was inoperable thereby not meeting Technical Specification requirements. It was determined that repairs could not be completed on either inoperable charging pump before the 72 hour LCO period would expire. The decision was made to shut the unit down. A controlled power reduction was begun at 2216 on 7-17-86 and cold shutdown (Mode 5) was reached at 1235 on 7-19-86.

NA	de	m.		_	4			
rem	100	m	QΥ	m	-0	ю	ъ.	m
100.1	50							

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104 EXPIRES: 8/31/88

FACILITY NAME (1)	DOCKET NUMBER (2)										L	ER	PAGE (3)					
Farley Nuclear Plant								YEA	R	SE	SEQUENTIAL NUMBER		REVISION NUMBER					
Unit 2	0	5	10	10	0	0	3	6	6 4	8 16	5 -	-	0 0 9	_	0 10	0 3	OF	0 13

TEXT (If more space is required, use additional NRC Form 366A's) (17)

Cause of Event

This event was caused by the electrical failure of the 2B charging pump motor while the 2C charging pump had already been removed from service for repair. The exact cause of the electrical failure of the motor has not yet been determined, but investigation is continuing. Thus, one train of charging was lost.

Reportability Analysis and Safety Assessment

This event is reportable because the unit was shut down as a result of not meeting a requirement of a Technical Specification LCO. However, the unit operated safely and reliably throughout this period. As soon as it could be determined that the repair time would exceed the LCO period, the unit was shut down. The 2A charging pump remained operable throughout the event and there was no danger to the health and safety of the public.

Corrective Action

The 2C charging pump was returned to service at 1124 on 7-21-86 following repairs. The unit resumed power operation on 7-22-86. The 2B charging pump motor was returned to be repaired and it will be returned to service following those repairs.

Additional Information

No previous events of this type have been reported at Farley Nuclear Plant.

Failed component data:

The charging pump motors are made by:

Westinghouse Electric Corporation Medium Motor and Gearing Division Buffalo. New York 14240

Motor frame number: 5810S

The charging pumps are made by:

Pacific Pumps 5715 Bickett Street Huntington Park, California

The pump serial numbers are 47668, 47669

Mailing Address
Alabama Power Company
600 North 18th Street
Post Office Box 2641
Birmingham, Alabama 35291
Telephone 205 783-6090

R. P. McDonald Senior Vice President Flintridge Building



August 18, 1986

Docket No. 50-364

Document Control Desk U. S. Nuclear Regulatory Commission Washington, D.C. 20555

Dear Sir:

Joseph M. Farley Nuclear Plant - Unit 2 Licensee Event Report No. LER 86-009-00

Joseph M. Farley Nuclear Plant, Unit 2, Licensee Event Report No. LER 86-009-00 is being submitted in accordance with 10CFR50.73.

If you have any questions, please advise.

Respectfully submitted,

R. P. McDonald

RPM/JAR:kpc-D-LER

Enclosure

cc: IE, Region II

IEZ.