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U.S. NUCLEAR REGULATORY COMMISSION											
	APPROVED OM& NO. 3150-0104 LICENSEE EVENT REPORT (LER) EXPIRES: 8/31/84										
								<u> </u>			PAGE (3)
FACILITY NAME (1									DOCKET NUMBER		• []
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TITLE (4)											
		<u>reatment I</u>				·-····					
EVENT DATE		LER NUMBER (PORT DAT				FACILITIES INVO		
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MODE (9)	5 20.	402(b)		20.406(c) '			50,73(a)(2)(iv)		73,71(b)	
POWER LEVEL		405(a)(1)(i)		50.36(c)				60,73(a)(2)(v)		73.71(c)	
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	·····	405(a)(1)(iii)		50,73(a)				60,73(a)(2)(viii)		356A)	
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J		COMPLETE	<u> </u>	EACH CO	MPONEN	I FAILURE	DESCRIBE	D IN THIS REPO	1	1.000	
CAUSE SYSTEM	COMPONENT	MANUFAC- TURER	REPORTABLE			CAUSE	SYSTEM	COMPONENT	MANUFAC- TURER	REPORTABLE TO NPROS	
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}			NTAL REPORT	EXPECT	ED (14)	<u></u>	لمعلمهم			MONTH	DAY YEAR
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YES (If yes, a	omplete EXPECTED	SUBMISSION DATE	,		(NO				DATE (15)	1 1 1
ABSTRACT (Limit	0 1400 speces, i.e., s	pproximetely fifteen	single-spece typ	ewritten III	nes/ (16)	· · · · · ·				ttt	1 1
<pre>ABSTRACT [Limit to 1400 Losses, Ls. approximately inflame Maile Loss of the November 24, 1986 Nine Mile Point Unit 2 was at 0% power with the mode switch in refuel. Procedures N2-RSP-RMS-M108(107), "Channel Functional Test of the Reactor Building Above (Below) the Refuel Floor Process Radiation Monitors", were performed to comply with Technical Specifications. In accordance with procedure, jumpers were installed to prevent Reactor Building intake/exhaust dampers from closing during the test. At approximately 0852 hours, a single jumper fell off and shorted to ground causing reactor building ventilation exhaust damper 2HVR*A0D9B to close. The closed damper prohibited flow, initiating standby gas treatment (SBGTS) "A" train and 2HVR*UC413A on low reactor building exhaust flow. Reactor building ventilation was returned to normal and SBGTS secured at approximately 1015 hours. CORRECTIVE ACTION Alternative methods to facilitate a more secure jumper installation are currently under review. B707140144 B70707 PDR ADDCK 05000410 S Herm 344 Herm</pre>											

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NRC Form 366A (9-83) LICENSE	LICENSEE EVENT REPORT (LER) TEXT CONTINUATION APPROVED OMB NO. 3150-0104 EXPIRES: 8/31/88					
FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6) PAGE (3)				
	· · · · ·	YEAR SEQUENTIAL ANA REVISION				
Nine Mile Point Unit	2 0 5 0 0 4 10	8 6 - 0 0 9 - 0 1 0 2 OF 0				

I. DESCRIPTION OF EVENT

On November 24, 1986 Nine Mile Point Unit 2 was at 0% power with the mode switch in refuel. Procedures N2-RSP-RMS-M108(107), "Channel Functional Test of the reactor building Above (Below) the Refuel Floor Process Radiation Monitors", were performed to comply with Technical Specifications. The tests perform a channel functional test of reactor building process radiation monitors by verifying the energizing/deenergizing of primary relays for the automatic trip functions. (N2-RSP-RMS-M108 and N2-RSP-RMS-M107 require similar jumper placement so they are usually run at the same time).

<u>Per procedure</u>, three jumpers were placed across specified terminals at panel <u>2CEC*PNL861</u>, terminal block MM. Soon afterwards, the jumper placed from TBMM-29 to TBMM-31 fell off, shorted to ground and deenergized 2HVR*SOVX9B and 2HVR*SOVY9B. Deenergize-to-close damper 2HVR*A0D9B then shut interrupting reactor building below refueling floor ventilation exhaust flow. As designed, the standby gas treatment system train "A" and 2HVR*UC413A received initiation signals due to low reactor building ventilation exhaust flow. (2200CFM)

Standby gas treatment discharge fan 2GTS*FNIB and unit cooler fan 2HVR*UC413B had been placed in pull to lock so did not start. No fuses were blown during the event.

At approximately 1015 hours reactor building ventilation was returned to normal and standby gas treatment was secured.

II. CAUSE OF EVENT

Difficulty in obtaining a tight "grip" with the jumper alligator clip on the head of a termination screw is considered the primary cause of the event. Procedures N2-RSP-RMS-M107 and N2-RSP-RMS-M108 do contain specific statements cautioning that "accidently shorting a terminal to ground will cause the associated system to trip. The procedures, therefore, included adequate warning to these consequences. A secondary cause is technician error. The Instrument and Control technician, cognizant of this and the difficulty in obtaining a tight grip, should have executed more caution in affecting a secure jumper attachment.

III. ANALYSIS OF EVENT

An undesireable challenge to a plant emergency safety feature system occurred due to a shorted jumper. There were, however, no adverse safety consequences as a result of LER 86-09.

NRC FORM 366A

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RC Form 366A 9-831 () ()		PORT (LER) TEXT CONTINU	U.S. NUCLEAR REGULATORY COM UATION APPROVED OMB NO. 3150-01 EXPIRES: 8/31/88				
ACILITY NAME (1)	·····	DOCKET NUMBER (2)	LER NUMBER (6) PAGE (3				
		×.	YEAR SEQUENTIAL SEQUENTIAL SEVENION				
Nine	Mile Point Unit 2	0 15 10 10 10 1 4 1 10					
EXT III more spece is re	wired, use edditional NRC Form 366A's) (17)						
A sho proce below	orted or open jumper can b edure and plant condition. /:	e postulated to occur This can lead to one	during any surveillance of two situations described				
a.	accordance with 10CFR50	Appendix A, Nine Mile onent or system failure	safety system inoperable. In Point Unit 2 is designed to e. Hence, this fault would n.				
Β.							
FSAR singl	chapter 15, section 15.0. e failures or operator er	3.2.1 specifically addm rors.	resses the consequences of				
IV.	CORRECTIVE ACTIONS						
Ι.	A copy of this LER has been transmitted to the I&C training department for discussion during training. (TMR #186.28)						
2.	Currently being evaluat installation.	ed are the following al	lternative methods of jumper				
A)	Addition of stake-ons (jumper connection. The (WR) and meet the requi Specification NMP2-E061	additions would be doc rements of SWEC Electri	ninal blocks for a better cumented via a Work Request ical Installation				
B)	Replace the use of jump specified cases. This t them under the terminal	will allow a more secur	n spaded lug connectors in re attachment by tightening				
C)	Replacing some terminal hole in the head allowin attached.	screws with special sc ng a threaded connectio	rews. These have a threaded n style jumper to be				
Imple	mentation of the above met	thod(s) will depend on	evaluation feedback.				

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			YEAR SEQUENTIAL SA REVISION				
L	Nine Mile Point Unit 2	0 5 0 0 0 4 1 0	8 6 - 0 0 9 - 0 1	0 4 OF 0 4			
	V. ADDITIONAL INFORMATION Identification of	of Components Referred t	o in this LER	•			
ſ	Component	IEEE 803 EIIS Fund		805 em ID			
2 · · · · · · · · · · ·	Reactor Building Ventilation D Reactor Building Unit Cooler (Standby Gas Treatment (GTS) Reactor Building Radiation Mon Relay Room Terminal Block	HVR) CLR FAN	V B	A A H K I			

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