

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Palisades Nuclear Plant										DOCKET NUMBER (2) 0 5 0 0 0 2 5 5										PAGE (3) 1 OF 1																																			
TITLE (4) Safety Injection Actuation																																																							
EVENT DATE (5)									LER NUMBER (6)									REPORT DATE (7)									OTHER FACILITIES INVOLVED (8)																												
MONTH			DAY			YEAR			YEAR			SEQUENTIAL NUMBER			REVISION NUMBER			MONTH			DAY			YEAR			FACILITY NAMES NA													DOCKET NUMBER(S) 0 5 0 0 0															
0 4			0 8			8 4			8 4			0 0			4 0			0 0			0 5			0 8			8 4			NA													0 5 0 0 0												
OPERATING MODE (9) N									THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5: (Check one or more of the following) (11)																																														
POWER LEVEL (10) 0 1 0 1 0									20.402(b)									20.406(c)									X 50.73(a)(2)(iv)									73.71(b)																			
									20.406(a)(1)(i)									50.36(c)(1)									50.73(a)(2)(v)									73.71(c)																			
									20.406(a)(1)(ii)									50.36(c)(2)									50.73(a)(2)(vi)									OTHER (Specify in Abstract below and in Text, NRC Form 366A)																			
									20.406(a)(1)(iii)									50.73(a)(2)(i)									50.73(a)(2)(viii)(A)																												
									20.406(a)(1)(iv)									50.73(a)(2)(ii)									50.73(a)(2)(viii)(B)																												
									20.406(a)(1)(v)									50.73(a)(2)(iii)									50.73(a)(2)(ix)																												
LICENSEE CONTACT FOR THIS LER (12)																																																							
NAME David W. Rogers; Technical Engineer; Palisades																				TELEPHONE NUMBER 6 1 6 7 6 4 - 8 9 1 3																																			
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																																																							
CAUSE					SYSTEM					COMPONENT					MANUFACTURER					REPORTABLE TO NPROS					CAUSE					SYSTEM					COMPONENT					MANUFACTURER					REPORTABLE TO NPROS										
SUPPLEMENTAL REPORT EXPECTED (14)																																																							
YES (If yes, complete EXPECTED SUBMISSION DATE)																				X NO										EXPECTED SUBMISSION DATE (15)																									
																														MONTH DAY YEAR																									

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

On April 8, 1984, while shutdown for refueling, electrical checkout activities on Preferred AC Bus (Y-20) [EF] resulted in two (2) spurious right channel Safety Injection Signal (SIS) actuations. The first SIS actuation occurred at 1702, and was reset at 1704. The second actuation occurred at 1714, and was reset at 1715.

Investigation indicates that each incident resulted from voltage spikes caused by a short circuit in a piece of test equipment (voltage checking light) which was being used on Y-20. The voltage spike caused an SIS block relay to drop out, allowing a previously present PCS low pressure signal to initiate a right channel SIS. Personnel who were performing the checkout were, at the time, unaware that they had caused the first SIS actuation. Checkout activity continued on Y-20 until the second occurrence, at which time several fuses [FU;EF] in Y-20 blew.

A review of the Y-20 circuit design revealed that circuit protection features in Y-20 (fuses [FU;EF], relays [RLY;EF], breaker [BKR;EF]) should have functioned to prevent a voltage spike from causing an SIS actuation. Circuit protection features will be evaluated to determine if they are appropriate for their application in Y-20.

At the time of the occurrence, the reactor was depressurized. While a voltage spike to one SIS block relay can result in a spurious safety injection while depressurized, a two out of four logic must be met for SIS when pressurized, thus precluding this type of event at power. Consequently, no threat to public health or safety, or other safety consequence, resulted.

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Consumers
Power
Company

General Offices: 1945 West Parnall Road, Jackson, MI 49201 • (517) 788-0550

May 8, 1984

US Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

DOCKET 50-255 - LICENSE DPR-20 -
PALISADES PLANT - LICENSEE EVENT REPORT 84-004
(SAFETY INJECTION ACTUATION)

Attached please find Licensee Event Report 84-004 (Safety Injection Actuation)
which is reportable to the NRC per 10 CFR 50.73(a)(2)(iv).

Brian D Johnson
Staff Licensing Engineer

CC Administrator, Region III, USNRC
Director, Office of Nuclear Reactor Regulation
NRC Resident Inspector - Palisades

Attachment

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