

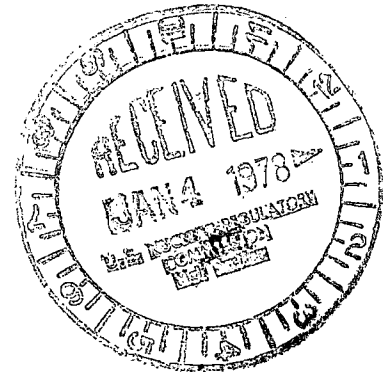


**Consumers
Power
Company**

REGULATORY DOCKET FILE COPY

General Offices: 212 West Michigan Avenue, Jackson, Michigan 49201 • Area Code 517 788-0550

December 21, 1977



Mr James G Keppler
Office of Inspection and Enforcement
Region III
US Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, IL 60137

DOCKET 50-255, LICENSE DPR-20 -
PALISADES PLANT - ER-77-054,
ER-77-057 and ER-77-058

Attached are three reportable occurrences for the Palisades Plant. Event Report 77-058 was a prompt reportable event that was identified by TWX dated December 12, 1977.

D P Hoffman

David P Hoffman
Assistant Nuclear Licensing Administrator

CC: ASchwencer, USNRC

DEC 27 1977

LICENSEE EVENT REPORT

Palisades

CONTROL BLOCK: 1 2 3 4 5 6

[PLEASE PRINT ALL REQUIRED INFORMATION]

LICENSEE NAME										LICENSE NUMBER										LICENSE TYPE					EVENT TYPE	
01	M	I	P	A	L	1	0	0	-	0	0	0	0	0	-	0	0	4	1	1	1	1	0	3		
7	8	9				14	15									25	26					30	31	32		
01 CONT		*	*	REPORT TYPE	REPORT SOURCE	DOCKET NUMBER										EVENT DATE					REPORT DATE					
01				L	L	0	5	0	-	0	2	5	5	1	1	2	1	7	7	1	2	2	0	7	7	
7	8			57	58	59	60	61					68	69					74	75					80	

EVENT DESCRIPTION

02 While raising reactor power, four coincident in-core alarms were received at 95.6%																									80
03 power. Event reoccurred on 11-22-77 and 11-23-77. On each occurrence, power was																									80
04 reduced to clear the alarms and a power distribution map was obtained per Technical																									80
05 Specification 3.11.B. During the occurrence on 11-23-77, one incore alarm remained																									80
06 after a power reduction to 85%; power was maintained less than 85% until the Xenon																									80
(cont'd)																									
SYSTEM CODE		CAUSE CODE		COMPONENT CODE						PRIME COMPONENT SUPPLIER		COMPONENT MANUFACTURER				VIOLATION									
07	I	D	07	C	Z	Z	Z	Z	Z	Z	Z	Z	9	9	9	9	N								
7	8	9	10	11	12					17	43	44				47	48								

CAUSE DESCRIPTION

08 In-core alarms were caused by a Xenon oscillation. On 11-23-77, a procedure to dampen																									80
09 the Xenon oscillation was successfully implemented.																									80
10																									80

FACILITY STATUS		% POWER		OTHER STATUS						METHOD OF DISCOVERY		DISCOVERY DESCRIPTION					
11	F	0	9	6	NA						a	NA					
7	8	9	10	12	13					44	45	46				80	
FORM OF ACTIVITY RELEASED		CONTENT OF RELEASE		AMOUNT OF ACTIVITY						LOCATION OF RELEASE							
12	Z	Z	NA						NA								
7	8	9	10	11						44	45					80	

PERSONNEL EXPOSURES

NUMBER		TYPE		DESCRIPTION	
13	0	0	0	Z	NA
7	8	9	11	12	13

PERSONNEL INJURIES

NUMBER		DESCRIPTION		
14	0	0	0	NA
7	8	9	11	12

PROBABLE CONSEQUENCES

15 NA																									80
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LOSS OR DAMAGE TO FACILITY

TYPE		DESCRIPTION	
16	Z	NA	
7	8	9	10

PUBLICITY

17 NA																									80
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ADDITIONAL FACTORS

18 (Event Description-cont'd) oscillation was dampened. Power distribution maps																									80
19 justified operation with the in-core alarm. No LH GR limits were exceeded. (ER 77-054)																									80

LICENSEE EVENT REPORT

Palisades

CONTROL BLOCK: 1 2 3 4 5 6

(PLEASE PRINT ALL REQUIRED INFORMATION)

LICENSEE NAME														LICENSE NUMBER														LICENSE TYPE					EVENT TYPE	
01	M	I	P	A	L	L									0	0	-	0	0	0	0	-	0	0	4	1	1	1	1	0	3			
7	8	9				14	15																	25	26					30	31	32		

REPORT TYPE				REPORT SOURCE		DOCKET NUMBER										EVENT DATE					REPORT DATE													
01	CONT	*	*	L	L											1	2	0	5	7	7	1	2	2	1	7	7							
7	8		57	58	59	60	61																	68	69					74	75			80

EVENT DESCRIPTION

02	During monthly surveillance of the Reactor Protection System TM/IP setpoints, the																																80
03	pressure set point for channel C was found to be 1747 psia instead of 1750 psia as																																80
04	required by T.S. 2.3.4. Remaining three channels had proper setpoints. Event non-																																80
05	repetitive. Setpoint was returned to an acceptable value.																																80
06	(ER-77-57)																																80

SYSTEM CODE				CAUSE CODE		COMPONENT CODE										PRIME COMPONENT SUPPLIER		COMPONENT MANUFACTURER					VIOLATION					
07	I	A	E	E											A						N							
7	8	9	10	11	12										43	44							47					48

CAUSE DESCRIPTION

08	Non-conservative setpoint caused by instrument drift (GE MAC Mod 562) Amount of drift																																80
09	(3 psi) is within instrument accuracy of +/- 0.5%. A setpoint change to raise the																																80
10	instrument setpoint is being processed.																																80

FACILITY STATUS				% POWER				OTHER STATUS								METHOD OF DISCOVERY				DISCOVERY DESCRIPTION															
11	E			0	9	8									b																				
7	8	9		10	11	12	13									44	45	46														80			

FORM OF ACTIVITY RELEASED				CONTENT OF RELEASE				AMOUNT OF ACTIVITY								LOCATION OF RELEASE															
12	Z			Z																											
7	8	9		10	11											44	45														80

PERSONNEL EXPOSURES

NUMBER				TYPE		DESCRIPTION																										
13	0	0	0	Z																												
7	8	9		11	12	13																										80

PERSONNEL INJURIES

NUMBER				DESCRIPTION																											
14	0	0	0																												
7	8	9		11	12																										80

PROBABLE CONSEQUENCES

15	NA																																80
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LOSS OR DAMAGE TO FACILITY

TYPE				DESCRIPTION																												
16	Z																															
7	8	9		10																												80

PUBLICITY

17	NA																																80
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ADDITIONAL FACTORS

18	NA																																80
19	NA																																80

LICENSEE EVENT REPORT

Palisades

CONTROL BLOCK: 1 2 3 4 5 6

[PLEASE PRINT ALL REQUIRED INFORMATION]

LICENSEE NAME										LICENSE NUMBER										LICENSE TYPE					EVENT TYPE	
01	M	I	P	A	L	1	0	0	-	0	0	0	0	-	0	0	4	1	1	1	1	0	1			
7	8	9				14	15									25	26						30	31	32	

REPORT TYPE				REPORT SOURCE		DOCKET NUMBER					EVENT DATE					REPORT DATE									
01	CONT	*	*	T	L	0	5	0	-	0	2	5	5	1	2	1	1	7	7	1	2	2	1	7	7
7	8		57	58	59	60	61						68	69					74	75				80	

EVENT DESCRIPTION

02	During normal steady-state operation, the 'R' bus became de-energized, causing a																							80
03	complete loss of offsite power and resulting in a loss of main condenser cooling																							80
04	water. The reactor was manually tripped. The primary plant was stabilized in the hot																							80
05	condition and was borated. Technical Specifications 3.1.1.a and 3.7.1 were violated																							80
06	Both diesel generators operated normally to supply electrical power during the 1.5																							80

(cont'd)

SYSTEM CODE				CAUSE CODE		COMPONENT CODE					PRIME COMPONENT SUPPLIER		COMPONENT MANUFACTURER					VIOLATION	
07	E	A	F	Z	Z	Z	Z	Z	Z	Z	Z	Z	9	9	9	Y			
7	8	9	10	11	12					17	43	44				47	48		

(ER-77-58)

CAUSE DESCRIPTION

08	The cause of the 'R' bus loss is unknown at this time. To mitigate the consequences																							80
09	of future 'R' bus losses, the tripping scheme for the 'R' bus has been modified so																							80
10	that a signal from the stripping relay (486 s-x) will trip neither the 345 KV supply																							80

(cont'd)

FACILITY STATUS			% POWER			OTHER STATUS			METHOD OF DISCOVERY			DISCOVERY DESCRIPTION									
11	E	1	0	0	NA	a	NA														
7	8	9	10	11	12	13	44	45	46							80					

FORM OF ACTIVITY RELEASED			CONTENT OF RELEASE			AMOUNT OF ACTIVITY			LOCATION OF RELEASE									
12	G	H	15	(cont'd)			Secondary water to atmosphere											
7	8	9	10	11			44	45								80		

PERSONNEL EXPOSURES

NUMBER			TYPE		DESCRIPTION																			
13	0	0	0	Z	NA																			
7	8	9	11	12	13																			80

PERSONNEL INJURIES

NUMBER			DESCRIPTION																					
14	0	0	0	NA																				
7	8	9	11	12																				80

PROBABLE CONSEQUENCES

15	NA																							80
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LOSS OR DAMAGE TO FACILITY

TYPE		DESCRIPTION																							
16	Z	NA																							
7	8	9	10																						80

PUBLICITY

17	NA																							80
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ADDITIONAL FACTORS

18	(Amount of Activity- cont'd) microcuries of I-131; 7.5 microcuries of I-133.																							80
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19																								80
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Event Description, (cont'd):

hours that off-site power was not available. This event similar to ER 77-055.

(ER 77-058)

Cause Description (cont'd):

breaker 27-R8 nor the low side breakers feeding the 2400 and 4160 volt buses. The 27-R8 breaker will trip from the transformer bank differential relays, and thermal trips for the feeder breakers have been retained. This scheme retains electrical fault protection, yet will prevent plant trips from spurious action of the 'R' bus stripping relay.

To determine the source of the 'R' bus stripping signals, the 486 S-X relay has been instrumented so that recorder traces can be obtained in the event future trips occur.