

### 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 0 2
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TITLE (4)  
Reactor Critical At Less Than 525°F

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		DOCKET NUMBER(S)
0 7	2 8	8 4	8 4	0 1 4	0 0	0 8	2 7	8 4	NA		0 5 0 0 0
									NA		0 5 0 0 0

OPERATING MODE (9)  N

POWER LEVEL (10) 0 0 0

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)

20.402(b)	20.408(e)	20.73(a)(2)(iv)	73.71(b)
20.408(a)(1)(i)	90.38(a)(1)	90.73(a)(2)(v)	73.71(e)
20.408(a)(1)(ii)	90.38(a)(2)	90.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Text, NRC Form 386A)
20.408(a)(1)(iii)	<input checked="" type="checkbox"/> 90.73(a)(2)(i)	90.73(a)(2)(vii)(A)	
20.408(a)(1)(iv)	90.73(a)(2)(ii)	90.73(a)(2)(vii)(B)	
20.408(a)(1)(v)	90.73(a)(2)(iii)	90.73(a)(2)(x)	

LICENSEE CONTACT FOR THIS LER (12)

NAME David W. Rogers; Technical Engineer; Palisades	TELEPHONE NUMBER AREA CODE 6 1 6 7 6 4 1 - 8 1 9 1 1 3
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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)  NO

EXPECTED SUBMISSION DATE (15)

MONTH	DAY	YEAR

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

On July 28, 1984, with the reactor critical in hot standby condition, primary coolant temperature dropped below 525 degrees F during a routine plant evolution. The condition is prohibited by Palisades Technical Specification 3.1.3(c).

The occurrence is attributed to licensed operator error, in failing to terminate the rapid cooldown that was in progress in a timely manner. A caution step will be added to the operating procedure to alert operators of the potential problem.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)  Palisades Nuclear Plant	DOCKET NUMBER (2)  05000255	LER NUMBER (6)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
		84	014	00	02	OF 02

TEXT (If more space is required, use additional NRC Form 388A's) (17)

On July 28, 1984, with the reactor [RCT; AB] in hot standby condition, primary coolant temperature dropped below 525 degrees F, which is prohibited by Palisades Technical Specification 3.1.3(c). The occurrence resulted from a routine evolution, wherein the atmospheric steam dumps [RV; SB] were opened to equalize pressure on either side of the main steam isolation valves (MSIV) [ISV; SB] to facilitate opening of the MSIVs. Before the atmospheric steam dumps could be closed, primary coolant temperature fell below 525 degrees F, to a low of 521 degrees F. Primary coolant temperature was below 525 degrees F for approximately two minutes, from 1745 to 1747.

In response to the incident, control rods were driven into the core to bring the reactor subcritical by an amount  $\geq$  the potential reactivity insertion due to depressurization, per Technical Specification 3.1.3(c). While plant operation under the subject conditions is prohibited by Technical Specifications, the basis for this limit assumes the most pessimistic rods out positive moderator temperature coefficient. The low power physics testing which was performed immediately prior to the event, established that a negative temperature coefficient existed in the core. Therefore, negative reactivity would have been inserted had a postulated depressurization accident occurred. Consequently, no threat to public health or safety existed.

The incident is attributed to licensed operator error, in that the operator did not respond quickly enough to terminate the rapid cooldown by shutting the atmospheric steam dumps, before primary coolant temperature fell below 525 degrees F. A caution step will be added to the operating procedure to alert operations personnel of the potential to reduce primary coolant temperature below 525 degrees F, as a result of rapid cooldown and the slow response time inherent to the atmospheric steam dumps.



Consumers  
Power  
Company

General Offices: 1945 West Parnall Road, Jackson, MI 49201 • (517) 78P-0550

August 27, 1984

US Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555

DOCKET 50-255 - LICENSE DPR-20 -  
PALISADES PLANT - LICENSEE EVENT REPORT 84-014  
(REACTOR CRITICAL AT LESS THAN 525°F)

Attached please find Licensee Event Report 84-014 (Reactor Critical At Less Than 525°F) which is reportable to the NRC per 10 CFR 50.73(a)(2)(1).

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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