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## LICENSEE EVENT REPORT (LER)

U.S. NUCLEAR REGULATORY COMMINS APPROVED ONG NO. 3150-0104 EXPIRES 8/01/86

IE22

ACULITY HAME (1)       DOCKET NUMBER (2)       PADE (2)         PADE (2)       DOCKET NUMBER (2)       PADE (2)         PADE (2)       DOCKET NUMBER (2)       PADE (2)         DOCKET NUMBER (2)       O (5 0 0 0 215 15 1 0 F 0)         OTHER PACILITIES INVOLVED (8)         REPORT DATE (7)       OTHER PACILITIES INVOLVED (8)         NONTH DAY VEAR       PACE (2)       OTHER PACILITIES INVOLVED (8)         MOMEER (2)       OTHER PACILITIES INVOLVED (8)         NONTH DAY VEAR       VEAR       PACE (2)         OTHER PACILITIES INVOLVED (8)         NA       OCKET NUMBER (3)         OTHER PACILITIES INVOLVED (8)         NA       OCKET NUMBER (3)         OTHER PACILITIES INVOLVED (8)         NA       OCKET NUMBER (3)         OCKET NUMBER (3)       OCKET NUMBE	
Palisades Nuclear Plant         0 5 0 0 0 2 5 5 1 0F 0           NTLE (4)         Reactor Critical At Less Than 525°F           EVENT DATE (8)         LER NUMBER (8)         REPORT DATE (7)         OTHER PACILITIES INVOLVED (8)           MONTH         Day         YEAR         PSGUENT(AL         NUMBER (8)         NA         0 5 0 0 0 0         0 0           MONTH         Day         YEAR         PSGUENT(AL         NUMBER (8)         NA         0 5 0 0 0 0         0 0           MONTH         Day         YEAR         PSGUENT(AL         NUMBER (8)         NA         0 5 0 0 0 0         0 0           MONTH         Day         YEAR         PSGUENT(AL         NUMBER (8)         NA         0 5 0 0 0 0         0 0           O         7 2 8 8 4 8 4 0 1 4 0 0 0 8 2 7 8 4 NA         NA         0 5 0 0 0 0         0 0 1 0 0           O         7 2 8 8 4 8 4 0 1 4 0 0 0 8 2 7 8 4 NA         NA         0 5 0 0 0 0         0 0 0 0         0 0 5 0 0 0 0         0 0 0 0 0           MORE REPORT         REPORT 16 EUBAITTED PUREUANT TO THE REQUIREMENTS OF 10 CFR §: (Checé one er mare of the fei/ewings (11)         73.71(b)           MODE 189         N         28.4866111111         90.35161121         90.73616121111         90.73616121111         90.73616121111         90.73616121111	-
NITLE (4)         Reactor Critical At Less Than 525°F         EVENT DATE (8)       CEPAT DATE (7)       OTHER FACILITIES INVOLVED (8)         MONTH DAY YEAR VEAR       SEQUENTIAL NEWBOR WONTH DAY YEAR       PACILITY HAMES       DOCKET HUMBER(5)         ONTHER FACILITIES INVOLVED (8)         NUMBER (6)       REPORT ONTH DAY YEAR       PACILITY HAMES       DOCKET HUMBER(5)         ONTHER VEAR       SEQUENTIAL NEWBOR WONTH DAY YEAR       PACILITY HAMES       DOCKET HUMBER(5)         ONTHER SEQUENTIAL NEWBOR WONTH DAY YEAR       PACILITY HAMES       DOCKET HUMBER(5)         ONTHER SEQUENTIAL NEWBOR WONTH DAY YEAR       PACILITY HAMES       DOCKET HUMBER(5)         ONTHER SEQUENTIAL NEWBOR WONTH DAY YEAR       NA       OCKET HUMBER(5)         OCKET HUMBER       OCKET HUMBER(5)         OCKET HUMBER       OCKET HUMBER(5)         OTHER REPORT IS EVENUETED PURSUANT TO THE REQUIREMENTS OF 10 CPR §: (Check one or more of the faviouring) (11]         DOLOGO (6)       DOLOGO (2)       TO 50 (2)       TO 50 (2)       TO 50 (	2
Reactor Critical At Less Than 525°F           EVENT DATE (8)         LER NUMBER (8)         REPORT DATE (7)         OTHER FACILITIES INVOLVED (8)           NONTH         DAY         YEAR         YEAR         YEAR         Status (1)         DOCKET MUMBER(5)         DOCKET MUMBER(5)           NONTH         DAY         YEAR         YEAR         YEAR         YEAR         Provement (1)         NA         O (5) 0 (0) (0)           O (7 2 8)         8 4 8 4 0 1 4 0 (0 8 2 7 8 4 NA         NA         0 (5) 0 (0) (0)         0 (5) 0 (0) (0)         0 (5) 0 (0) (0)           OPERATING         THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or mare of the following) (11)         73.71(b)         73.71(b)           20.402(b)         20.402(b)         20.402(c)         20.402(c)         20.402(c)         20.73(a)(2)(w)         73.71(b)           MODE (9)         N         20.402(b)         20.402(c)         20.73(a)(2)(w)         73.71(c)         73.71(c)           POWER         20.402(a)(11(W)         90.38(a)(1)         90.38(a)(2)(w)         90.38(a)(2)(w)         90.73(a)(2)(w)         73.71(c)           Downer         20.402(a)(1)(W)         90.37(a)(2)(W)         90.73(a)(2)(W)         90.73(a)(2)(W)         90.73(a)(2)(W)         90.73(a)(2)(W)         90.73(a)(2)(W)	-
EVENT DATE (8)         LER NUMBER (8)         REPORT DATE (7)         OTHER PACILITIES INVOLVED (8)           MONTH         DAY         YEAR         YEAR         REQUENTIAL NUMBER         REVEND NUMBER         MONTH         DAY         YEAR         PACILITY NAMES         DOCKET MUMBER(S)           0         7         2         8         4         0         1         4         0         0         8         2         7         8         4         NA         0         5         0         0         1           0         7         2         8         4         0         1         4         0         0         8         2         7         8         4         NA         0         5         0         0         1           0         7         2         8         4         0         1         4         0         0         8         7         8         4         NA         0         5         0         0         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	
NONTH         DAY         YEAR         YEAR         YEAR         PACILITY HAMES         DOCKET MUMBER(S)           0         7         2         8         4         0         1         4         0         0         7         0         5         0         0         0         0         0         0         0         5         0 <td></td>	
NA         O         IS         O	
0       7       2       8       4       0       1       4       0       8       2       7       8       4       NA       0       5       0	
O         7         2         8         4         0         1         0         0         8         2         7         4         NA         0         5         0         0         0         1           OPERATING MODE (9)         N         THER REPORT IS BUGARITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)         73.71(b)           POWER LEVEL (10)         20.402(b)         20.408(c)         30.73(a)(2)(w)         73.71(b)         73.71(b)           POWER LEVEL (10)         20.408(a)(1)(0)         80.38(a)(1)         80.73(a)(2)(w)         90.73(a)(2)(w)         73.71(c)           20.408(a)(1)(W)         90.38(c)(2)         90.73(a)(2)(w)         90.73(a)(2	
OPERATING MODE (9)         N         THE REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)           POWER LEVEL (10)         20.405(a)         20.405(a)         30.73(a)(2)(w)         73.71(a)           POWER LEVEL (10)         20.405(a)(1)(B)         80.36(a)(1)         80.36(a)(1)         80.73(a)(2)(w)         73.71(a)           POWER LEVEL (10)         20.405(a)(1)(B)         80.36(a)(1)         80.73(a)(2)(w)         90.73(a)(2)(w)         73.71(a)           POWER LEVEL (10)         20.405(a)(1)(B)         80.36(a)(2)         90.73(a)(2)(w)         90.73(a)(2)(w)         OTHER (Specify in Abstract balance in Text, NRC Form 388.4)           POWER LEVEL         20.405(a)(1)(W)         80.73(a)(2)(W)         80.73(a)(2)(w)(A)         90.73(a)(2)(w)(A)         90.73(a)(2)(w)(A)           20.405(a)(1)(W)         80.73(a)(2)(W)         80.73(a)(2)(W)(A)         80.73(a)(2)(W)(A)         90.73(a)(2)(W)(A)         90.73(a)(2)(W)(A)           20.405(a)(1)(W)         80.73(a)(2)(W)         80.73(a)(2)(W)         80.73(a)(2)(W)(B)         80.73(a)(2)(W)         80.73(a)(2)(W)         80.73(a)(2)(W)           LICENSEE CONTACT FOR THIS LER (12)         TELEPHONS NUMBER         AREA CODE         AREA CODE         AREA CODE	_
Normalize         20.405(a)         20.405(a)         20.73(a)(2)(w)         73.71(b)           POWER LEVEL         20.405(a)(1)(b)         90.28(a)(1)         90.73(a)(2)(w)         73.71(b)           0         0         0         0         0         0         0         73.71(b)           20.405(a)(1)(b)         90.28(a)(1)         90.73(a)(2)(w)         90.73(a)(2)(w)         73.71(b)           20.405(a)(1)(b)         90.73(a)(2)(b)         90.73(a)(2)(w)         90.	
LEVEL         20.408(a)(1)(B)         80.28(a)(1)         80.73(a)(2)(V)         73.71(e)           1001         0101         20.408(a)(1)(B)         90.28(a)(2)         90.73(a)(2)(V)         07HER (SaecHy in Abstract before and in Text, NRC Parm           20.408(a)(1)(B)         20.408(a)(1)(B)         90.73(a)(2)(B)         90.73(a)(2)(VH)(A)         00.73(a)(2)(VH)(A)         00.73(a)(2)(VH)(A)           20.408(a)(1)(W)         80.73(a)(2)(B)         90.73(a)(2)(VH)(A)         00.73(a)(2)(VH)(B)         00.73(a)(2)(VH)(B)           20.408(a)(1)(W)         90.73(a)(2)(W)         90.73(a)(2)(VH)(B)         90.73(a)(2)(VH)(B)         00.73(a)(2)(VH)(B)         00.73(a)(2)(VH)(B)           20.408(a)(1)(W)         90.73(a)(2)(W)         90.73(a)(2)(VH)(B)         90.73(a)(2)(VH)(B)         00.73(a)(2)(VH)(B)         00.73(a)(2)(VH)(B)           20.408(a)(1)(W)         90.73(a)(2)(W)         90.73(a)(2)(W)         90.73(a)(2)(W)(B)         00.73(a)(2)(VH)(B)         00.73(a)(2)(VH)(B)           20.408(a)(1)(W)         90.73(a)(2)(W)         90.73(a)(2)(W)         90.73(a)(2)(W)(B)         00.73(a)(2)(W)(B)         00.73(a)(2)(W)(B)           20.408(a)(1)(W)         90.73(a)(2)(W)         90.73(a)(2)(W)         90.73(a)(2)(W)(B)         90.73(a)(2)(W)(B)         90.73(a)(2)(W)(B)           20.408(a)(1)(W)         90.73(a)(2)(W)         90.73(a)(2)(W)         <	
Image: Construction         B0.38(c)(2)         B0.73(c)(2)(W)         OTHER (Same for in Address of the state	
AME David W. Rogers; Technical Engineer; Palisades	
20.406(a)(1)(v) 80.73(a)(2)(w) 80.73(a)(2)(x) LICENSEE CONTACT FOR THIS LER (12) TELEPHONS NUMBER David W. Rogers; Technical Engineer; Palisades	
LICENSEE CONTACT FOR THIS LER (12) TELEPHONS NUMBER David W. Rogers; Technical Engineer; Palisades	
David W. Rogers; Technical Engineer; Palisades	-
David W. Rogers; Technical Engineer; Palisades	-
611 16 7 16 4 1-18 19 111	3
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)	
CAUSE SYSTEM COMPONENT MANUFAC. TO NPROS CAUSE SYSTEM COMPONENT MANUFAC. REPORTABLE	
	-
BUPPLEMENTAL REPORT EXPECTED 1141 EXPECTED MONTH DAY YEA	
YES /// yes compare EXPECTED SUBMISSION DATE	
ARETRACT (Limit to 1400 speces / a. speco simulativi titteen single spece light (18)	

On July 28, 1984, with the reactor critical in hot standby condition, primary colant 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.

8408310056 840827 PDR ADOCK 05000255 S PDR LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S NUCLEAR REGULATORY COMMISSIC APPROVED OMB NO 3150-0104

EVPIRES 8/11/04

CILITY HAME (1)	DOCKET NUMBER (2)		LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL	NUMBER		T		
Palisades Nuclear Plant	0 6 0 0 0 2 5	8 4.	-0114	-00	0 2 0	0 2		

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  $\gg/=$  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.



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

Brian D Johnson Staff Licensing Engineer

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

Attachment

IE22 1/1