

PALISADES PLANT  
Docket 50-255

NRC FORM 366  
(7-77)

U. S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT

CONTROL BLOCK: (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

01 M I P A L 1 2 0 0 - 0 0 0 0 0 0 - 0 0 0 3 4 1 1 1 1 4 5  
7 8 9 LICENSEE CODE 14 15 LICENSE NUMBER 25 26 LICENSE TYPE 30 57 CAT 58

CON'T  
01 REPORT SOURCE L 6 0 5 0 0 0 2 5 5 7 0 1 7 2 0 8 3 6 0 8 2 9 8 3 9  
7 8 9 DOCKET NUMBER 60 61 EVENT DATE 68 69 REPORT DATE 74 75

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 During normal power operation on July 20, 1983, at 0055, an alarm was  
03 observed on Panel C-13 indicating that fire system panel C-47 was off normal.  
04 The alarm had been in for an undetermined period of time. Subsequently, the  
05 breaker which powers panel C-47 was found to be tripped causing the alarm.  
06 In this condition, additional fire protection alarms (flow type) would not be  
07 transmitted to panel C-13 for operator detection. The occurrence was deter-  
08 mined reportable per TS 3.22.1.1 and 6.9.2.b(2) on July 28, 1983.  
7 8 9

09 SYSTEM CODE A R 11 CAUSE CODE X 12 CAUSE SUBCODE Z 13 COMPONENT CODE Z Z Z Z Z 14  
7 8 9 10 11 12 13 14 15 16  
17 LER-RO REPORT NUMBER 8 3 1 0 5 6 0 3 L 0  
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32  
ACTION TAKEN X 18 FUTURE ACTION X 19 EFFECT ON PLANT Z 20 SHUTDOWN METHOD Z 21 HOURS 0 0 0 0 22 ATTACHMENT SUBMITTED Y 23 NPD-4 FORM SUB N 24 PRIME COMP. SUPPLIER Z 25 COMPONENT MANUFACTURER Z 9 9 9 26

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 Breaker trip possibly caused by an electrical discharge from welding activi-  
11 ties to a fire system flow detector. Action to clear the alarm or initiate  
12 hourly fire tours of affected areas was not performed. Upon discovery, the  
13 breaker was reset and operation of panel C-47 was verified. Event discussed  
14 with operators who were on shift during the preceding 24 hours.  
7 8 9

15 FACILITY STATUS E 28 % POWER 0 8 9 29 OTHER STATUS NA 30 METHOD OF DISCOVERY A 31 DISCOVERY DESCRIPTION Alarm annunciation 32  
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50  
16 ACTIVITY CONTENT RELEASED OF RELEASE Z 33 Z 34 AMOUNT OF ACTIVITY NA 35 LOCATION OF RELEASE NA 36  
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50  
17 PERSONNEL EXPOSURES NUMBER 0 0 0 37 TYPE Z 38 DESCRIPTION NA 39  
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50  
18 PERSONNEL INJURIES NUMBER 0 0 0 40 DESCRIPTION NA 41  
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50  
19 LOSS OF OR DAMAGE TO FACILITY TYPE Z 42 DESCRIPTION NA 43  
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50  
20 PUBLICITY ISSUED N 44 DESCRIPTION NA 45  
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

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S PDR

Attachment to LER 83-56  
Consumers Power Company  
Palisades Plant  
Docket 50-255

On July 20, 1983, at 0055, an operator observed that an alarm was in on panel C-13 indicating that Fire System Panel C-47 was off normal. Panel C-47 receives its inputs from flow switch detectors only. During the undetermined period of time in which the alarm on panel C-13 was in, additional fire protection flow switch detector inputs would not be transmitted to panel C-13 for operator notification.

During this same time period, however, panel C-47A (Fire Protection Smoke Detection Panel) was operable. Therefore, any fire protection smoke detection inputs would be audibly alarmed on C-47A.

Per TS 3.22.1.1, the fire detection instrumentation for each fire detection zone shown in Table 3.22.1 must be operable when equipment in that fire detection zone is required to be operable. For the period of time in which panel C-13 was alarmed, a signal from any of the flow switch detectors listed in TS Table 3.22.1 would not be reflashed on panel C-13 for operator notification. Therefore, flow switch fire detection instrumentation for these zones was effectively inoperable while panel C-13 was alarmed. Hourly fire watch patrols were not established in lieu of the inoperable fire detection instrumentation. Without normal fire detection capability in these zones, automatic starting of a fire pump as well as smoke detectors (where provided) would have alerted operators of a potential problem.

Upon discovery of the alarm on panel C-13, panel C-47 was checked for the problem. The breaker which powers panel C-47 was found to be tripped. The breaker was reset to clear the alarm on panel C-13 and operation of panel C-47 was verified.

The cause of the tripped breaker is believed to have resulted from an electrical discharge from welding activities to a fire system flow switch detector on July 20 1983. The resulting alarm on panel C-13 was apparently acknowledged by an operator, however, appropriate immediate action to either clear the alarm or initiate hourly fire tours in the affected areas was not taken. The event was discussed with all control room operators who stood shift during the preceding 24 hour period.

The event was determined to be reportable per T.S. 3.22.1.1 and 6.9.2.b(2) on July 28, 1983.



Consumers  
Power  
Company

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

August 29, 1983

James G Keppler, Administrator  
Region III  
US Nuclear Regulatory Commission  
799 Roosevelt Road  
Glen Ellyn, IL 60137

DOCKET 50-255 - LICENSE DPR-20 -  
PALISADES PLANT - LICENSEE EVENT REPORT 83-56 - INOPERABLE FIRE DETECTION  
INSTRUMENTATION

Attached please find Licensee Event Report 83-56 (Inoperable Fire Detection  
Instrumentation), which is reportable to the NRC per Technical Specification  
6.9.2.b(2).

Brian D Johnson  
Staff Licensing Engineer

CC Director, Office of Nuclear Reactor Regulation  
Director, Office of Inspection and Enforcement  
NRC Resident Inspector - Palisades

Attachments

SEP - 2 1983

Lead  
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