

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)

0 1 | M | I | P | A | L | 1 | 2 | 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

0 1 | R | L | 6 | 0 | 5 | 0 | 0 | 0 | 2 | 5 | 5 | 7 | 0 | 7 | 1 | 9 | 8 | 3 | 8 | 0 | 8 | 0 | 2 | 8 | 3 | 9  
7 8 REPORT SOURCE 60 61 DOCKET NUMBER 68 69 EVENT DATE 74 75 REPORT DATE 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 | During normal power operation, a sample from T-82D ("D" Safety Injection  
 0 3 | Tank) showed the boron concentration to be below the TS limit of 1720 ppm.  
 0 4 | The boron concentration could not be restored within the one hour require-  
 0 5 | ment of TS 3.3.2.a. Condition reportable per TS 6.9.2.a(2). No threat to  
 0 6 | public health or safety resulted.  
 0 7 | \_\_\_\_\_  
 0 8 | \_\_\_\_\_

0 9 | S | F | 11 | E | 12 | B | 13 | A | C | C | U | M | U | 14 | Z | 15 | Z | 16  
7 8 9 SYSTEM CODE 9 10 CAUSE CODE 11 CAUSE SUBCODE 12 COMPONENT CODE 13 COMP. SUBCODE 14 VALVE SUBCODE 15  
 17 | LER NO | 8 | 3 | 21 | 22 | - | 23 | 0 | 4 | 8 | 24 | 26 | / | 27 | 0 | 1 | 28 | 29 | T | 30 | - | 31 | 0 | 32 | REVISION NO.  
7 8 REPORT NUMBER 21 22 23 24 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 37 | ATTACHMENT SUBMITTED Y 23 | NPRD-4 FORM SUB. N 24 | PRIME COMP SUPPLIER N 25 | COMPONENT MANUFACTURER N 1 1 5 0 26  
33 34 35 36 37 40 41 42 43 44 47

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 | Boron dilution due to minor leakage past loop check valve and SIT check  
 1 1 | valve or fill and drain valve. Primary coolant leak rate is being closely  
 1 2 | monitored. Valves will be inspected during next refueling outage.  
 1 3 | \_\_\_\_\_  
 1 4 | \_\_\_\_\_

1 5 | E | 28 | 0 | 8 | 9 | 29 | NA | 30 | B | 31 | Tank Sample | 32  
7 8 9 FACILITY STATUS 10 % POWER 11 OTHER STATUS 12 METHOD OF DISCOVERY 13 DISCOVERY DESCRIPTION 14  
 1 6 | Z | 33 | Z | 34 | NA | 35 | NA | 36  
7 8 9 ACTIVITY CONTENT 10 RELEASED OF RELEASE 11 AMOUNT OF ACTIVITY 12 LOCATION OF RELEASE 13  
 1 7 | 0 | 0 | 0 | 37 | 38 | NA | 39  
7 8 9 PERSONNEL EXPOSURES 10 NUMBER 11 TYPE 12 DESCRIPTION 13  
 1 8 | 0 | 0 | 0 | 40 | 41 | NA | 42  
7 8 9 PERSONNEL INJURIES 10 NUMBER 11 DESCRIPTION 12  
 1 9 | Z | 42 | NA | 43  
7 8 9 LOSS OF OR DAMAGE TO FACILITY 10 TYPE 11 DESCRIPTION 12  
 2 0 | N | 44 | NA | 45  
7 8 9 PUBLICITY 10 ISSUED 11 DESCRIPTION 12  
68 69 80 NRC USE ONLY

IE 22



Consumers  
Power  
Company

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

August 2, 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 83-48 - "D" SAFETY INJECTION TANK LOW  
BORON CONCENTRATION

On the reverse please find Licensee Event Report 83-48 ("D" Safety Injection  
Tank Low Boron Concentration), which is reportable to the NRC per Technical  
Specification 6.9.2.a(2).

David J Vandewalle  
Nuclear Licensing Administrator

CC Administrator, Region III, USNRC  
NRC Resident Inspector - Palisades

Attachment

OC0883-0002A-NL02

AUG 05 1983

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Attachment to LER 83-048  
Consumers Power Company  
Palisades Plant  
Docket 50-255

At 2001 on July 19, 1983, a sample from T-82D (D Safety Injection Tank) showed boron concentration to be 1718 ppm. Since the boron concentration was less than the 1720 ppm Technical Specifications limit, T-82D was declared inoperable. The tank was subsequently drained and refilled from the Safety Injection Refueling Water (SIRW) tank to restore the boron concentration. After several drain and fill evolutions, boron concentration was restored to 1730 ppm at 2210, July 19, 1983. The one hour requirement of TS 3.3.2.a was exceeded by approximately 69 minutes.

The decrease in T-82D boron concentration has been attributed to minor PCS leakage (within Technical Specifications limits) into the tank. This leakage is past loop check valve 3146 and either the tank check valve 3147 or the fill and drain valve CV-3003.

Inspection and repair of check valve 3146 is currently scheduled for the next refueling outage. Additional monitoring will be performed to determine which other valves are leaking and necessary repairs will also be made during the next refueling outage.