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 0 0 0 0 0 0 0 0 0
CON'T	SOURCE LI 6 0 5 10 0 0 2 5 5 7 0 7 1 1 9 8 3 8 0 18 0 2 8 3 9
0 2	EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10) [During the Palisades FSAR update process, reviewers discovered that the]
0 3	current resulting from a short-circuit in the 125 V DC System will result in
0 4	the temperature of the associated conductors exceeding the value specified in
0 5	the Palisades Plant FSAR, Section 8.5.2.3. On July 19, 1983, this condition
0 6	[was determined to be reportable per T.S. 6.9.2.A(8). No threat to public
0 7	health or safety results.
0 8	9
0 9 7 8	SYSTEM CAUSE CAUSE COMPONENT CODE SUBCODE SUBC
	17 REPORT NUMBER 21 22 23 24 26 27 28 29 30 31 32
	ACTION FUTURE EFFECT SHUTDOWN HOURS 22 ATTACHMENT FORM SUB- SUPPLIER MANUFACTURER X 18 X 19 Z 20 Z 21 0 0 0 0 12 23 10 24 25 27 27 27 27 27 27 27
110	Cause attributed to installation, in 1981, of larger capacity station
111	[batteries. Operability of the DC system during normal and accident
1 2	conditions remains unaffected by this discrepancy, since the design load
1 3	current does not result in unnacceptable conducter temperatures.
1 4	80
1 5	FACILITY STATUS 30 METHOD OF DISCOVERY DESCRIPTION 32 E 23 0 8 929 NA C 31 FSAR Update Review
	ACTIVITY CONTENT RELEASED OF RELEASE AMOUNT OF ACTIVITY 35 NA N
1 7	PERSONNEL EXPOSURES NUMBER TYPE DESCRIPTION 39 NA PERSONNEL INJURIES 13 80
1 2	NUMBER DESCRIPTION(41) NA NA SO
1 9	LOSS OF OR DAMAGE TO FACILITY (43) TYPE DESCRIPTION NA NA
10	PUBLICITY ISSUED DESCRIPTION 45 NAC USE ONLY NA
7 8	



General Offices: 1945 West Parnall 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 83-49 - DC SYSTEM SHORT-CIRCUIT CURRENT IN EXCESS OF FSAR LIMIT

On the reverse please find Licensee Event Report 83-49 (DC System Short Circuit Current in Excess of FSAR Limit), which is reportable to the NRC per Technical Specification 6.9.2.a(8).

David J VandeWalle

Nuclear Licensing Administrator

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

Attachment

AUG 0,5 1963

IEXZ

Attachment to LER 83-049 Consumers Power Company Palisades Plant Docket 50-255

While performing a review of the Palisades Plant FSAR for updating purposes, reviewers discovered that the current resulting from a short-circuit in the 125 V DC system (maximum DC system current) will result in the temperature of the associated conductors exceeding the values specified in the Palisades Plant FSAR Section 8.5.2.3. The condition results from the installation of larger capacity station batteries during the 1981 refueling outage.

Analysis shows that the FSAR specified conductor temperature limits will be exceeded for #4 AWG conductors and smaller assuming four cycles for system protection breakers to open.

Operation of the DC system under normal and accident conditions is not affected by the discrepancy because the design load current does not result in conductor temperatures that exceed the limits stated in the Palisades Plant FSAR.

Initial corrective measures under consideration are: 1) Evaluation of the DC loads that are fed by panels Dll, DllA, D21, D21A and their feeder cables to determine the adequacy of the cables to withstand the higher short-circuit current capability of the new batteries. 2) Replacement of all inadequate cables with cables of sufficient current carrying capability to withstand the short-circuit current of the new batteries and maintain temperatures within the FSAR limits. 3) Provide a technical seminar for the Palisades Plant Technical Department to discuss system protection electrical considerations for future modifications.

Additional information on corrective measures will be provided when available.