DEC 9 1977

DISTRIBUTION
Docket
NRC PDR
LOCAL PDR
ORB#1 Reading
VStello
KRGoller
ASchwencer
SMSheppard
GGZech
OELD
OI&E(5)
ACRS(16)
TBAbernathy
JRBuchanan
JMcGoghh
DEisenhut
BJones

Docket No. 50-255

Consumers Power Company
ATTN: Mr. Dave Bixel
Nuclear Licensing Administrator
212 West Michigan Avenue
Jackson, Michigan 49201

Gentlemen:

By letter dated November 1, 1977, we transmitted Amendment No. 31 to Provisional Operating License No. DPR-20 for the Palisades Plant.

Page 3-60 appeared twice in the Amendment package. Enclosed is the correct page 3-60.

Sincerely,

/S/

A. Schwencer, Chief
Operating Reactors Branch #1
Division of Operating Reactors

Enclosure:
As stated

cc w/encl:
See next page

9 cont'l

OFFICE ▶	DOR:ORB#1	DOR:ORB#1				
SURNAME ▶	GGZech:lb	ASchwencer				
DATE ▶	12/07/77	12/ 8/77				

NRC Form 318 (2-76) NRCM 02040 ☆U.S. GOVERNMENT PRINTING OFFICE: 1976—634—782

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

December 9, 1977

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U.S. Environmental Protection Agency
Federal Activities Branch
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230 South Dearborn Street
Chicago, Illinois 60604

3.10 CONTROL ROD AND POWER DISTRIBUTION LIMITS (Contd)

3.10.4 Misaligned or Inoperable Control Rod or Part-Length Rod

a. A control rod or a part-length rod is considered misaligned if it is out of position from the remainder of the bank by more than 8 inches.

b. A control rod is considered inoperable if it cannot be moved by its operator or if it cannot be tripped. A part-length rod is considered inoperable if it is not fully withdrawn from the core and cannot be moved by its operator. If more than one control rod or part-length rod becomes misaligned or inoperable, the reactor shall be placed in the hot shutdown condition within 12 hours.

c. If a control rod or a part-length rod is misaligned, hot channel factors must promptly be shown to be within design limits or reactor power shall be reduced to 75% or less of rated power within two hours. In addition, shutdown margin and individual rod worth limits must be met. Individual rod worth calculations will consider the effects of xenon redistribution and reduced fuel burnup in the region of the misaligned control rod or part-length rod.

3.10.5 Regulating Group Insertion Limits

a. To implement the limits on shutdown margin, individual rod worth and hot channel factors, the limits on control rod regulating group insertion shall be established as shown on Figure 3-6. The 4-pump operation limits of Figure 3-6 do not apply for decreasing power level rapidly when such a decrease is needed to avoid or minimize a situation harmful to the plant personnel or equipment. Once such a power decrease is achieved, the limits of Figure 3-6 will be returned to by borating the control rods above the insertion limit within two hours. Limits more restrictive than Figure 3-6 may be implemented during fuel cycle life based on physics calculations and physics data obtained during plant start-up and subsequent operation. New limits shall be submitted to the NRC within 45 days.

b. The sequence of withdrawal of the regulating groups shall be 1, 2, 3, 4.

c. An overlap of control banks in excess of 40% shall not be permitted.

d. If the reactor is subcritical, the rod position at which criticality could be achieved if the control rods were withdrawn in normal sequence shall not be lower than the insertion limit for zero power shown on Figure 3-6.