

file

KU HVN ILL

US AGCY WHEA

MOA 232 P 520 P CST

VIE246(1430)(1-019205A303)PD 10/30/75 1425

TEL CONSPower JKN

2020 203 DLY JACKSON MICH 10/30/75

213 MR K R BAKER

NUCLEAR REGULATORY COMMISSION (FORMERLY AEC)

700 ROOSEVELT ROAD

ELLEN ELLYN, IL

SUBJECT- PALISADES PLANT-

IMPROPER CONVERSION OF FLUX TO POWER BY  
THE INCA POWER DISTRIBUTION

THIS TWX IS SENT TO FOLLOW UP MY CONVERSATION WITH K R BAKER ON  
THE AFTERNOON OF OCTOBER 29, 1975. IT HAS NOT YET BEEN DETERMINED

THAT THE STRICT DEFINITION FOR AN ABNORMAL OCCURRENCE INCLUDES THIS  
TYPE OF OCCURRENCE. HOWEVER, UNTIL WE CAN SHOW THAT IT CLEARLY IS  
NOT AN ABNORMAL OCCURRENCE, WE WILL CONTINUE TO TREAT IT AS IF IT  
WERE.

A WPRIME CONSTANT IS USED TO CONVERT INCORE MILLIVOLT INFORMATION  
INTO POWER INFORMATION. WPRIME IS A FUNCTION OF BURNUP. EIGHT  
DIFFERENT WPRIMES ARE USED FOR THE VARIOUS FUEL TYPES AND RADIAL  
POSITIONS IN THE PALISADES CORE. IT WAS DETERMINED ON OCTOBER 29,  
1975 AT 1400 HOURS THAT IMPROPER WPRIMES WERE ENTERED INTO THE INCA  
CODE ON JUNE 19, 1973.

SINCE THE APRIL 1975 START-UP THE ERROR AS A RESULT OF ERRONEOUS  
WPRIMES HAS BEEN CONSERVATIVE KIE, HIGHER THAN ACTUAL HEAT RATES

WERE CALCULATED FOR THE CORE LIMITING ASSEMBLIES). ON OCTOBER 29,  
1975, IT WAS DETERMINED THAT FOR JUNE 1973 THE INTERCHANGED WPRIME  
CURVES RESULTED IN A NON-CONSERVATIVE HEAT RATE BEING CALCULATED  
FOR THE CORE LIMITING ASSEMBLIES. THIS RESULTED IN SETTING A CORE  
HEAT RATE LIMIT WHICH WAS 2 PERCENT LARGER THAN IT SHOULD HAVE BEEN.  
MORE DETAILED INFORMATION WILL FOLLOW WITH SPECIFIC CURVES AND  
CALCULATIONS.

B SLADE/T W ELWARD  
PALISADES PLANT  
CONSUMERS POWER COMPANY  
CBW

UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
OFFICE OF INSPECTION AND ENFORCEMENT  
REGION III  
799 ROOSEVELT ROAD  
GLEN ELLYN, ILLINOIS 60137

Incident Notification From: Consumers Power Company 50-255  
(Licensee & Docket No. (or License No.))

Transmittal Date : November 3, 1975 Palisades Plant

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