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1975 OCT 31 AM 9

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WU MVN ILL

WU AGCY WHEA

WUA 232 P 520 P CST

V02240(1430)(1-019205A303)PD 10/30/75 1425

TLX CONSPower JKN

0000 003 DLY JACKSON MICH 10/30/75

PN2 DR K R BAKER

NUCLEAR REGULATORY COMMISSION (FORMERLY AEC)

700 ROOSEVELT ROAD

OLEN 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

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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.

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

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WU MVN ILL

WU AGCY WHEA

received 10/31/75
Sak