

May 3, 1984

Docket No. 50-255
SL05-84-05-003

Mr. David J. Vandewalle
Nuclear Licensing Administrator
Consumers Power Company
1945 W. Parnall Road
Jackson, Michigan 49201

Dear Mr. Vandewalle:

SUBJECT: XNB CORRELATION FOR PALISADES APPLICATION

We find that additional information is needed to continue our review of the XNB correlation for Palisades application (Exxon report XN-NF-709, Revision 0). Please provide your response to the enclosure by May 11, 1984. The questions in the enclosure were telecopied to your staff on April 30, 1984.

The reporting and/or recordkeeping requirements contained in this letter affect fewer than ten respondents; therefore, OMB clearance is not required under P.L. 96-511.

Sincerely,

Original signed by

Walter A. Paulson, Project Manager
Operating Reactors Branch #5
Division of Licensing

Enclosure:
As stated above

cc w/enclosure
See next page

Docket File

NRC PDR
Local PDR
ORB #5 Reading
D. Eisenhut
OELD
E. Jordan
J. Grace
W. Paulson
LA
ACRS (10)
cc list

DL:ORB #5
WPaulson:jc
5/12/84

DL:ORB #5
DCrutchfield
for 5/3/84

8405040336 840503
PDR ADDCK 05000255
PDR

SEE
OR USE 04

Mr. David J. Vandewalle

May 3, 1984

cc

M. I. Miller, Esquire
Isham, Lincoln & Beale
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One First National Plaza
Chicago, Illinois 60670

Mr. Paul A. Perry, Secretary
Consumers Power Company
212 West Michigan Avenue
Jackson, Michigan 49201

Judd L. Bacon, Esquire
Consumers Power Company
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Jackson, Michigan 49201

James G. Keppler, Regional Administrator
Nuclear Regulatory Commission, Region III
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Township Supervisor
Covert Township
Route 1, Box 10
Van Buren County, Michigan 49043

Office of the Governor
Room 1 - Capitol Building
Lansing, Michigan 48913

Palisades Plant
ATTN: Mr. Robert Montross
Plant Manager
Covert, Michigan 49043

U.S. Environmental Protection Agency
Federal Activities Branch
Region V Office
ATTN: Regional Radiation Representative
230 South Dearborn Street
Chicago, Illinois 60604

Resident Inspector
c/o U.S. NRC
Palisades Plant
Route 2, P. O. Box 155
Covert, Michigan 49043

Lee E. Jager, P.E., Chief
Environmental and Occupational
Health Services Administration
Michigan Department of Public Health
3500 N. Logan Street
Post Office Box 30035
Lansing, Michigan 48909

REQUEST FOR ADDITIONAL INFORMATION
PALISADES PLANT
EXXON REPORT

1. Section 20, "Analysis of Data", of the topical report states: "The differences in fluid conditions for the limiting subchannel between the rod indicating CHF and the XCOBRA prediction of the rod indicating CHF were observed to be small."
 - (a) How are the fluid conditions for the limiting subchannel obtained other than the XCOBRA prediction?
 - (b) Provide comparisons of the limiting subchannel fluid conditions between those of the rod indicating CHF and those predicted by XCOBRA.
2. The ENC-204 test data, which are used for justification of the application of the XNB correlation to Palisades, consist of -- uniform axial power shape data only. It is the position of the staff that all possible power distributions expected for power operation be used in the development of any CHF correlation. Therefore, rather than using the ENC-204 data solely to derive the DNBR limit, it is necessary that the ENC-204 data belong to the same population as other data presented in XN-NF-621, Revision 1. Provide your statistical analysis to show that the ENC-204 data is in the same population.
3. In the letter dated January 3, 1983 (from J. C. Chandler to L. E. Phillips, JCC-001:83), ENC requested that the ENC-1 and ENC-2 test sections be removed from the data base for the XNB correlation because these two test sections are either non-representative of any grid or atypical of the power distribution in the reactors. As stated in XN-NF-709, Both ENC-1 and ENC-2 represent the rod size and pitch of Palisades. What is the impact of removal of these data on the applicability of XNB for Palisades?