

APR 02 1975

Docket No. 50-155

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Consumers Power Company
ATTN: Mr. Ralph B. Sewell
Nuclear Licensing Administrator
212 West Michigan Avenue
Jackson, Michigan 49201

Gentlemen:

We are reviewing the Big Rock Point Reload G-1 submittal dated June 20, 1974, and have concluded that additional information shown on the enclosure is needed to complete our review.

To enable us to maintain our review schedule, please submit the requested additional information by April 14, 1975.

Sincerely,

*Original signed by
Dennis L. Ziemann*

Dennis L. Ziemann, Chief
Operating Reactors Branch #2
Division of Reactor Licensing

Enclosure:
Request for Additional
Information

cc: see next page

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OFFICE	RL:ORB #2	RL:ORB #2				
SURNAME	EAReesves:aw	DLZiemann				
DATE	4/1/75	4/2/75				

APR 6 1975

cc w/enclosure:

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CONSUMERS POWER COMPANY
BIG ROCK POINT
DOCKET NO. 50-155
REQUEST FOR ADDITIONAL INFORMATION

Provide the following additional information:

1. Identify the number of mixed-oxide (MOX) fuel bundles, as well as the total number of fuel bundles, in the proposed reload. If the number of MOX fuel bundles is large, the total inventory of MOX in BRP would be large, core physics would be altered and a detailed review would be necessary. Our review procedure for large reloads, as discussed with all U.S. fuel vendors and the ACRS last Winter, would begin with the review of a generic report prepared by the fuel vendor in accordance with the scope established in WASH-1303 and later in GESNO.
2. If Reload G-1 includes no more than 7 MOX fuel bundles, provide the information described below.
 - (a) Peak cladding temperatures for the LOCA must be calculated using current models as required in 10 CFR 50 Appendix K.
 - (b) The EXXON UD, fuel densification model must be shown to apply to Reload G-1 MOX fuels. This can be accomplished by demonstrating that the G-1 MOX fuel is like the G MOX fuel (eg., microstructure, thermal stability, process history) and referencing our acceptance of XN-75-11 for Reload G.
 - (c) An appropriate reduction in thermal conductivity for MOX fuel must be included in the stored energy calculation.
 - (d) Describe the location of reload and residual assemblies and provide the power distribution to be used in LOCA analysis, indicating the peak power rod(s) in the reload. The use of a fuel densification model should change the burnup at which peak cladding temperatures are expected.
 - (e) Provide an estimate of time-to-collapse using an approved cladding collapse model.
 - (f) Summarize the current performance of Reload G, which is the reference cycle for G-1.

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