

UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON, D.C. 20545

October 31, 1973

Docket No. 50-219

Jersey Central Power & Light Company
ATTN: Mr. I. R. Finfrock, Jr.
Vice President - Generation
Madison Avenue at Punch Bowl Road
Morristown, New Jersey 07960

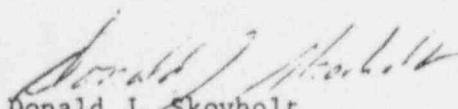
Gentlemen:

By letter dated October 26, 1973, we requested you to supply revised curves representing the limits for the average planar linear heat generation rate set forth in the curves labeled "γ" in Figures 4-9A1 and 4-9A2 of NEDM-10735, Supplements 6, 7, and 8. The revision would present the results of detailed heatup calculations to exposures higher than 15,000 MWD/T. These curves would be applicable to Type I and Type II fuel assemblies.

For Type III E fuel assemblies, you proposed a new curve by letter dated September 7, 1973. We understand that this curve is based on core heatup calculations up to 10,000 MWD/T. Please submit a revised curve that includes the results of detailed heatup calculations to an exposure that exceeds the expected maximum planar exposure during this cycle.

In addition, for the Type III E fuel assembler, revise your heatup calculations to include a sink temperature appropriate to the accident environment and a heavy element contribution in the decay heat curve equivalent to 0.31%. Also, in support of your request to remove the 100°F penalty associated with the effects of a passive rod in the fuel assembly on the spray heat transfer coefficient, please provide the results of your parametric studies that show the sensitivity of the peak clad temperature to changes in the spray heat transfer coefficient at time of passive rod quenching and to changes in quenching time. The above requested information should be submitted for staff review by November 7, 1973.

Sincerely,


Donald J. Skovholt
Assistant Director for
Operating Reactors
Directorate of Licensing

cc: See Next Page

Jersey Central Power & Light
Company

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