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JUL 9 1971

Docket No. 50-289

Metropolitan Edison Company
ATTN: Mr. John G. Miller
Vice President & Chief Engineer
P. O. Box 542
Reading, Pennsylvania 19603

Gentlemen:

On June 19, 1971 the AEC adopted interim acceptance criteria for the performance of emergency core cooling systems (ECCS) in light-water nuclear power plants. A copy of the Commission's interim policy statement on this matter is enclosed for your information. In accordance with Section IV.E. of the interim policy statement, before we can complete our evaluation of the ECCS for the Three Mile Island Nuclear Station Unit 1 we need information to show that the system meets the general criteria of Section IV.A. using a suitable evaluation model. We are continuing discussions with representatives of the Babcock & Wilcox Company (B&W) that are directed toward establishing a suitable evaluation model using B&W computer codes for evaluation of plants incorporating a nuclear steam supply system designed by B&W.

The information that we need regarding analyses performed with a suitable evaluation model is:

- (1) For the break size range, location and type mentioned in Appendix A, Part 1, of the interim policy statement, provide information pertaining to (a) the system pressure, (b) hhe hot-spot clad temperature, local mass velocity, fluid temperature, and heat transfer coefficient, (c) the core pressure drop, quality, and mass velocity, (d) the heat flux distribution in the hot channel, (e) the flow rates in the upper and lower plenums, (f) the flow rates in the broken and intact cold-leg piping, (g) the flow rate cut of the break, and (h) percent clad metalwater reaction.
- (2) Provide a detailed discussion of the calculation used to predict heat transfer during the reflood portion of the transient.

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(3) Discuss in detail any deviations in the evaluation model used in the foregoing studies from that described in Appendix A, Part 1 of the interim policy statement, of that model in wife .

In addition, you should submit for our review any changes to the Technical Specifications for the plant that may be required on the basis of the results of your analyses.

When you have obtained the required information, please submit it as an amendment to your application.

Sincerely,

Original Signed by Peter A. Marris

Peter A. Morris, Director Division of Reactor Licensing

Enclosure: AEC Interim Policy Statement

cc: Jersey Central Power & Light Company Local PDR ATTN: Mr. Robert H. Sims

Vice President

Mr. John R. Thorpe, Manager

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260 Cherry Hill Road Parsippany, New Jersey 07054

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