

AUG 13 1971

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The Toledo Edison Company
ATTN: Mr. Glenn J. Sampson
Vice President, Power
420 Madison Avenue
Toledo, Ohio 43601

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.B. of the interim policy statement, before we can complete our evaluation of the ECCS for the Davis Besse Nuclear Power Station, 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 these analyses 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) the 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 and hot-leg piping, (g) the flow rate out of the break, and (h) percent clad wet-dry reaction.
- (2) Provide a detailed discussion of the calculation used to predict heat transfer during the reflood portion of the transient.
- (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, if that model is used.

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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.

The required additional information on ECCS performance should be submitted with your application for an operating license. If you prefer to submit it at an earlier date, we will review it in accordance with the priorities that exist at that time and advise you of the results of our assessment upon completion.

Sincerely,

Original Signed by
P. A. Morris

Peter A. Morris, Director
Division of Reactor Licensing


Enclosure:
AEC Interim Policy Statement

cc: Donald H. Hauser, Esq.
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