



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

February 6, 1979

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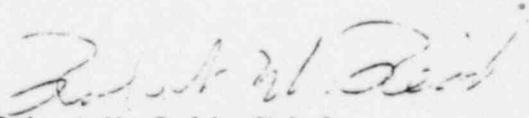
Docket No. 50-289

Mr. J. G. Herbein
Vice President
Metropolitan Edison Company
P. O. Box 542
Reading, Pennsylvania 19640

Dear Mr. Herbein:

By letter dated December 26, 1978 you responded to our November 13, 1978 request for additional information concerning the calibration of out-of-core detectors (OCDs) at Three Mile Island Nuclear Station, Unit No. 1. Upon reviewing this response we find that it has provided very little of the information requested. Specific deficiencies are listed in the enclosure. You are requested to provide the information necessary to correct these deficiencies within 30 days of receipt of this letter.

Sincerely,


Robert W. Reid, Chief
Operating Reactors Branch #4
Division of Operating Reactors

Enclosure:
Request for Additional
Information

cc w/enclosure:
See next page

7903160085

Metropolitan Edison Company

cc:
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Mr. Robert B. Borsum
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Government Publications Section
State Library of Pennsylvania
Box 1601 (Education Building)
Harrisburg, Pennsylvania 17126

ADDITIONAL INFORMATION NEEDED TO RESPOND TO
WRC INFORMATION REQUEST OF NOVEMBER 13, 1978
POWER RANGE NUCLEAR INSTRUMENTATION CALIBRATION
THREE MILE ISLAND NUCLEAR STATION, UNIT NO. 1

DOCKET NO. 50-289

Question 1. Provide an analysis which shows how the power indicated by the nuclear instruments will differ from the actual reactor thermal power as a function of time after various typical and limiting power transients.

Deficiencies: Your response did not provide analyses as requested. As a result we have no basis for knowing how much the reactor high power trip will be out of calibration. Without this quantitative information there is also no basis for knowing if the miscalibration significantly affects the consequences of accidents. You have stated it does not have a significant effect for limiting accidents, but you have not provided any quantitative analyses to support this conclusion. We reiterate our request that you provide the time-dependent quantitative information specified by this question.

Question 2. Based on the above analysis, describe rational criteria for performing heat balance checks and calibrating the nuclear instrumentation such that the consequences of possible accidents remain within the bounds calculated in the TMI-1 FSAR.

Deficiencies: Because the analyses requested by Question 1 were not provided, you have no quantitative bases for defining rational criteria for the frequency or conditions under which nuclear instrument calibration is needed. Instead, you merely state that Met Ed "feels" the schedule suggested by Babcock & Wilcox is satisfactory.

Question 3. If the criteria presented in Item 2, above, are more restrictive than the criteria you have already proposed (heat balance once per shift) revise your March 13, 1978 submittal to reflect these more restrictive criteria.

Deficiencies: In as much as you have not provided a technical answer to Question 2, you have no technical basis for answering Question 3, and have not provided a technically-based answer.

Question 4. In LER 78-01/01T you committed to make certain changes in the overpower trip bistable settings following certain changes in power level. Discuss why these changes were needed, why they are adequate to assure safety of operations and why they were not included as part of the proposed change in the technical specifications.

Deficiencies: Your response is not based on a quantitative analysis as requested by Questions 1 and 2. Revise your response to reflect the results of the analyses performed to answer Questions 1 and 2.