

APR 8 1975

Docket No.: 50-320

D. R. Muller, Assistant Director for Environmental Projects, PL

METROPOLITAN EDISON CO. (MET. - ED) THREE MILE ISLAND (TMI-2)

In response to W. Regan Jr.'s letter of March 5, 1975 the meteorology staff, SAB, has completed a review of those sections of the TMI-2 Environmental Report and Supplement II dealing with meteorology and provide the following comments:

- a. Although the applicant has furnished enough information in the TMI-2 Environmental Report and Supplement II of this report to enable the staff to prepare a conservative evaluation for a draft environmental statement, additional information should be provided to permit the staff to finalize its evaluation. The following information should be supplied:
 1. a description of the operational phase onsite meteorology monitoring program as related to the environmental effects of plant operation, including the meteorology information indicated in Regulatory Guide 1.21.
 2. a discussion of plans for collecting and compiling data (including atmospheric humidity) to verify models used in predicting the environmental effects of plant operation related in particular to the plant cooling system on the environment.
 3. since the onsite meteorological data provided in the TMI-2 Environmental Report has a recovery rate of only 70% more recent data with a recovery rate of at least 90% would be preferable.
 4. if at least a two-year period of onsite meteorological data with a recovery rate of at least 90% is not available, provide a commitment to furnish at least a one-full year period of meteorological data (in joint frequency form with an acceptable data recovery rate) upon completion of the annual data collection cycle, so that the viability of the program and the conservatism of any atmospheric dispersion estimates based on other data with a lower recovery rate may be verified.

The applicant should be referred to Section 6.2.4, "Meteorological Monitoring," in Regulatory Guide 4.2, Preparation of Environmental Reports for Nuclear Power Plants, March 1973.

SEE PREVIOUS YELLOW FOR CONCURRENCE CHAIN

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The applicant is evidently not monitoring atmospheric humidity at this site as recommended in Safety Guide 23 (Regulatory Guide 1.23). The applicant should provide a commitment to install such a system in order to verify the model used to predict the effects of the cooling tower plume or provide an alternate method of verifying the cooling tower plume prediction models.

- b. The data recovery rate does not meet present recommendations. This could present problems at a contested environmental hearing. Further, conclusions regarding the environmental acceptability of the plant with respect to offsite doses based on such data could be invalidated if a reevaluation based on data with an acceptable recovery rate is made.
- c. If the aforementioned data is available, the applicant could probably compile the needed information within a month.
- d. The meteorology staff, SAB, could proceed with the review if the missing information was supplied before or during the first environmental site visit.

These items were prepared by L. Andrews and E. H. Markee, Jr.,
Meteorology Section.

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Harold R. Denton, Assistant Director
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D. R. Meller, Assistant Director for Environmental Projects, RL

METROPOLITAN EDISON CO. (MET. - ED) THREE MILE ISLAND (TMI-2)

In response to W. Regan Jr.'s letter of March 5, 1975 the meteorology staff, SAB, has completed a review of those sections of the TMI-2 Environmental Report and Supplement II dealing with meteorology and provide the following comments:

- a. Insufficient information is contained in the TMI-2 Environmental Report and Supplement II to enable the staff to complete a draft environmental statement. The following information should be supplied:
 1. a description of the operational phase onsite meteorology monitoring program as related to the environmental effects of plant operation, including the meteorology information indicated in Regulatory Guide 1.21.
 2. a discussion of plans for collecting and compiling data (including atmospheric humidity) to verify models used in predicting the environmental effects of plant operation related in particular to the plant cooling system on the environment.
 3. since the onsite meteorological data provided in the TMI-2 Environmental Report has a recovery rate of only 79% more recent data with a recovery rate of at least 90% would be preferable.
 4. if at least a two-year period of onsite meteorological data with a recovery rate of at least 90% is not available, provide a commitment to furnish at least a one-full year period of meteorological data (in joint frequency form with an acceptable data recovery rate) upon completion of the annual data collection cycle, so that the visibility of the program and the conservatism of any atmospheric dispersion estimates based on other data with a lower recovery rate may be verified.

The applicant should be referred to Section 6.2.4, "Meteorological Monitoring," in Regulatory Guide 4.2, Preparation of Environmental Reports for Nuclear Power Plants, March 1973.

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