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 50-316 Donald C. Cook Nuclear Power Plant, Unit 2, Indiana & 05000316
 AUTH. NAME AUTHOR AFFILIATION
 ALEXICH, M. P. Indiana & Michigan Electric Co.
 RECIP. NAME RECIPIENT AFFILIATION
 DENTON, H. R. Office of Nuclear Reactor Regulation, Director (post 851125)

SUBJECT: Responds to 860620 request for review of technical evaluation rept prepared by BNWL re quality of meteorological data collected. Addl time required to receive results of special consultant rept on listed topics.

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INDIANA & MICHIGAN ELECTRIC COMPANY

P.O. BOX 16631
COLUMBUS, OHIO 43216

August 13, 1986

AEP:NRC:0999

Donald C. Cook Nuclear Plant Unit Nos. 1 and 2
Docket Nos. 50-315 and 50-316
License Nos. DPR-58 and DPR-74
TECHNICAL EVALUATION REPORT FOR THE
D. C. COOK METEOROLOGICAL PROGRAM

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Denton:

This letter is in response to the June 20, 1986 request of your staff that we provide a review of the Technical Evaluation Report (TER) prepared by Pacific Northwest Laboratories regarding the quality of meteorological data collected at the Donald C. Cook Nuclear Plant by August 22, 1986 (60 days of receipt of your letter). As we discussed with your staff, we will require additional time to fully respond to the technical issues raised in the report and decide upon a reasonable course of action as a result of the issues raised. Part of this time is so that we may receive the results of a special report by our consultant, which will deal with the following topics.

1. Evaluation of Existing Data Sources

This evaluation will provide a reasonable definition of the local climatology and lake breeze effect. An expected "description" of the lake breeze circulation for the Cook Plant area, based upon on-site data and special study data, is being developed to locate any needed additional meteorological measurement sites at the best locations. The results from this task and Task 2 will provide answers to the NRC concerns about data representativeness or interference from local effects.

2. Evaluation of Current Tower Design

This undertaking involves the inspection of the tower instruments and locations, documentation of local terrain and physical features, and an overview survey of the surrounding EPZ. This information, with the results from Task 1 and a careful review of all applicable NRC guidelines, will determine to what extent the current tower design and location can be used. Included in this task will be the field recommendation for stability class determination.

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3. Specifications for Additional Meteorological Sites (if required)

The specification for additional wind measurements, and other variables, locations and instrumentation will be determined if needed. Specific considerations that will influence these requirements include the following:

- o Results from Items 1 and 2
- o Local topography
- o NRC-required EPZ model coverage
- o Location of population centers

The final number, configuration, and measurement heights recommended will provide the minimum number of data points necessary to characterize the lake breeze effect on EPZ dispersion.

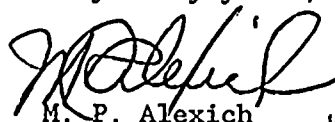
4. Model Selection

Based on the first three tasks and a careful review of the available models and meteorological wind field preprocessors, a recommendation will be made concerning the most appropriate plume modeling approach.

Based on our receipt of the consultant's report on a timely basis, we will respond to the concerns raised in the TER and provide you a schedule for any additional actions we plan to take by approximately November 21, 1986.

This document has been prepared following Corporate procedures which incorporate a reasonable set of controls to insure its accuracy and completeness prior to signature by the undersigned.

Very truly yours,



M. P. Alexich
Vice President

LOK
8/13/86

cm

cc: John E. Dolan
W. G. Smith, Jr. - Bridgman
R. C. Callen
G. Bruchmann
G. Charnoff
NRC Resident Inspector - Bridgman