UNITED STATES OF AMERICA NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

In the Matter of:)		
) Docket Nos.	50-329-OM
CONSUMERS POWER COMPANY)		50-330-OM
)		50-329-OL
(Midland Plant Units 1 and 2))		50-330-OL

CONSUMERS POWER COMPANY'S REQUEST FOR ADMISSION OF THE TRUTH OF RELEVANT MATTERS OF FACT FROM INTERVENOR MARY SINCLAIR

Pursuant to 10 C.F.R. §2.742, Consumers Power

Company requests that Intervenor Mary Sinclair admit the

truth of the following matters of fact relevant to Intervenor Sinclair's Contention 5. We respectfully remind Intervenor Sinclair of the 10-day time limit of 10 C.F.R. §2.742(b).

- 1. Table 4.1 found at page 4-7 of the DES and at page 4-24 of the FES presents the same data as that found in Tables V and VI on pages 53 and 54 of the attached "Cooling Pond Thermal Performance Summary Report; Midland Plant Units 1 and 2," prepared for Consumers Power Company, August 1973, with the exception of the deletion of a column entitled Equilibrium Temperature.
- 2. The data referred to in paragraph 1 of this Request for Admission is the result of analytical and physical thermalhydraulic model studies undertaken to determine the thermal performance of the Midland cooling pond.

The data referred to in paragraph 1 of this Request for Admission is not derived from studies of cooling ponds in Arizona, New Mexico, or a climatic region of the country different from the Midwest. 4. The NRC analysis of fog and ice generation in the DES and FES was based mostly on data collected at Dresden. (FES at pages 5-6, 9-35, and 9-36) For each matter of fact which Intervenor denies, Consumers Power Company requests that Intervenor set forth in detail the reasons for such denial. Respectfully submitted, Counsel for Consumers Power Company ISHAM, LINCOLN & BEALE Three First National Plaza Suite 5200 Chicago, Illinois 60602 (312) 558-7500 -2-

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CERTIFICATE OF SERVICE

I, Michael I. Miller, one of the attorneys for Consumers Power Company, hereby certify that a copy of "Consumers Power Company's Request for Admission of the Truth of Relevant Matters of Fact from Intervenor Mary Sinclair" was served upon all persons shown in the attached service list by deposit in the United States mail, first class, this 30th day of August, 1982

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UNITED STATES OF AMERICA NUCLEAR REGULATORY COMMISSION

Before the Atomic Safety and Licensing Board

In the Matter of:)	
)	Docket Nos. 50-329
CONSUMERS POWER COMPANY,)	50-330
(Midland Plant, Units 1 and 2)	,	Operating License

RESPONSE BY MAPY SINCLAIR TO CONSUMERS POWER COMPANY REQUESTS FOR ADMISSION OF THE TRUTH OF BELEVANT MATTERS OF FACT

September 14, 1982

The statement that are made by the Applicant in their "Request for Admission of the Truth of Relevant Matters of Fact" are not proper statements for admission for the following reasons:

l) It is irrelevant and immaterial whether these data are the same as in the report attached because the basis of that study was later discredited and proved unreliable by the actual performance of the Dresden cooling pond which was observed after that study was made. The report itself states that the average monthly data were developed from data from 1956-1966 (p. 21) for the model that was constructed for this study.

On the other hand, the Dresden cooling pond was constructed in 1971 to accommodate Dresden Units II and III which went into operation in January, 1970, and January, 1971, respectively. A description of the cooling pond is in the FES of Dresden II and III, Section 3.4.3 November, 1973. Peferring to the Bechtel (1973) study, the Midland FES, clearly states that the data on the cooling pond available to the Staff at the time the FES-CP was prepared "were derived from data from observations at cooling ponds with considerably smaller air-water temperature differentials than are now expected at the Midland pond."(FES 5-6) FES 5-6 goes on to say that these were "limited observations and that new information has become available since that early study was made. This new information includes the studies of steam fog over cooling ponds by Currier et al.,

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(FES Ref. 2) in 1974 and Hicks (FES Ref. 3, 4) in 1977 and 1978 and that these models "have been confirmed by observations over operating cooling ponds in Illinois and Arizona." (FES 5-6)

- 2) It is irrelevant and immaterial to the whole point of my contention that the data referred to in paragraph 1 of Request for Admission was a study to determine the performance of the Midland pond, because it was later found to be inaccurate based on the information given in FES 5-6 as discussed in paragraph 1. These new data were also brought to the attention of the Midland County Road Commissioner and City Planning Commission by James Carson, meteorologist for Argonne Laboratories in September, 1978. It is the whole point of my contention 5 that the new data based on the new and more relevant information should have been used in Table 4.1 and 4.2, 4-24, 25 of the FES instead of using thermal performance data that were discredited and known to be unrealistic by the Staff itself.
- 3) As I stated before, it is immaterial where or how the data was arrived at, although I appreciate seeing the study for the first time. The Staff admits that it is inaccurate and unreliable based on more recent information as discussed in paragraph 1.
- 4) The statement that NRC analysis of fog and ice generation was based "mostly" on data collected at Dresden is ambiguous. Other models (Currier, Hicks, etc.) and other ponds are mentioned in the DES and FES texts. It is difficult to tell on which of these studies or observations their analysis is based.

However on p. 9-19 of the FES, the Staff's comment states that their conclusion about dense, frequent tog over Cordonville Road is based <u>primarily</u> on observations of steam fog near the cooling pond for the Dresden pond.

It is the point of my contention that the thermal performance tables of the cooling pond should have been developed based on the new data available from various sources in the '70's mentioned in the DES and the FES, rather than relying on thermal performance data from a study that has been demonstrated to be deficient in a significant way, i.e., fog and ice generation. For example, with the knowledge that much denser fog can be expected based on observations

at Dresden, etc., than was believed would happen based on the Bechtel model, the total evaporation (Column 3 of Tables 4.1 and 4.2, FES 4-24, 25) must be expected to be higher than the Bechtel (1973) tables would indicate. This could also affect the percent imposed heat load lost by evaporation, etc. (Column 4 of Table 4.1 and 4.2)

The Staff also states that the heat load at the Midland pond will be 21% greater than that at Dresden (FES 9-19). This increased heat load should be reflected in the thermal performance tables of the pond. The amount of water lost through evaporation from this higher heat load can alter significantly the length of time that the pond can remain effective as a cooling source.

This is an important economic and safety consideration.

Pespectfully submitted,

Mary Sinclair

cc: Charles Bechhoefer, Esq.
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