

# Commonwealth Edison Company

ONE FIRST NATIONAL PLAZA ★ CHICAGO, ILLINOIS

Address Reply to:

POST OFFICE BOX 767 ★ CHICAGO, ILLINOIS 60690

November 8, 1971

Dr. Peter A. Morris, Director  
Division of Reactor Licensing  
U.S. Atomic Energy Commission  
Washington, D.C. 20545



Subject: Additional Information concerning the  
Environmental Impact of Dresden Unit 3

50-249

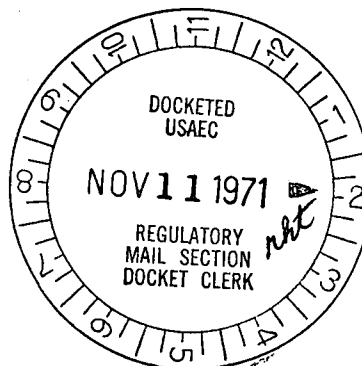
Dear Dr. Morris:

On October 18, 1971, we submitted to the AEC a show cause letter on why Dresden Unit 3 should be allowed to continue to operate. As a result of this letter, members of your staff have asked that additional information be submitted concerning the operation of the Dresden cooling lake. The answers to these questions are given below.

1 - On how many days of the year will you be unable to meet the standards for the Illinois River with the Dresden lake in operation?

RESPONSE:

The current standards for the Illinois River in the sector in which Dresden is located are a maximum temperature of 93°F or a maximum differential temperature of 5°F, whichever is most limiting. Both of these temperature limits must be met within a mixing zone of 600 feet. Based on our analysis, we expect that with a river temperature of 88°F, we can meet the above standards in the discharge canal; i.e., no mixing zone is needed. We expect that for a river temperature of 78°F, the standard for the 5°F differential temperature cannot be met. It should be pointed out that at the time the Dresden cooling lake was designed, the standard assumed complete mixing of the water being discharged from the station with the Illinois River.



4948

LB

Dr. Peter A. Morris

- 2 -

November 8, 1971

2 - Have you experienced any fogging from the Dresden lake?

RESPONSE:

Meteorological conditions conducive to fogging have occurred during the past several months and fogging has been experienced at Dresden lake. In general, this fog remains immediately over the lake and does not migrate. However, under certain wind conditions, it has been observed that the fog comes over the lake dikes and onto the access roads to Dresden Station. This latter condition has occurred on only 2 or 3 occasions.

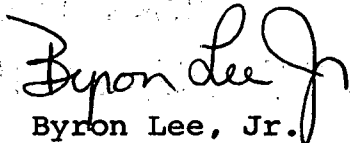
3 - Confirm that the Dresden lake is in operation.

RESPONSE:

Dresden lake has been fully operational since about October 1, 1971. In addition, approximately 98 spray modules are being used for cooling.

Finally, we would like to certify that the information contained in our letter of October 18, 1971 (show cause letter) was true and correct to the best of our knowledge and belief.

Very truly yours,



Byron Lee, Jr.  
Assistant to the President