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DEC 19 1972

Docket Nos. 50-237
and 50-249

Mr. Byron Lee, Jr.
Assistant to the President
Commonwealth Edison Company
P. O. Box 767
Chicago, Illinois 60690

Dear Mr. Lee:

Review of the Environmental Report for Dresden 2 & 3, including the Supplemental Information submitted on October 18, 1972, has revealed the need for additional information to continue our environmental review. Accordingly, please submit the information identified in the enclosure to this letter. Your reply should consist of three signed originals and 197 additional copies as a sequentially numbered amendment to your Environmental Report. Please hold 100 additional copies subject to call by the AEC.

To maintain our review schedule, we will need a completely adequate response by January 15, 1973. Please inform us within seven (7) days after receipt of this letter of your confirmation of the schedule or the date you will be able to meet.

Sincerely,

Original signed by R. A. Purple
B. J. Youngblood, Chief
Environmental Projects Branch #3
Directorate of Licensing

Enclosure:
Request for additional information

cc: Mr. John W. Rowe
Isham, Lincoln & Beale
One First National Plaza, 42nd Floor
Chicago, Illinois 60670

OFFICE ▶	L:EP-3	L:EP-3				
SURNAME ▶	GChipman:reh	BJYoungblood				
DATE ▶	12/18/72	12/19/72				

REQUEST FOR ADDITIONAL INFORMATION
DRESDEN NUCLEAR GENERATING STATION
DOCKET NOS. 50-249, 237

1. Provide block diagrams of the plant cooling water system, showing inputs and outputs involved (both average and maximum where pertinent) from all major equipment, both as now existing and as it will be after "closed-cycle" operation.

2. Provide a table showing all chemicals used, concentrations of effluents, uses for the chemicals and final fate of these chemicals.

3. Provide a block diagram of all biocide treatment facilities showing inputs and outputs, quantities of materials used (both average and maximum where pertinent), concentrations of effluents produced and the fate of such effluents.

4. Provide a block diagram of the sanitary waste treatment facility showing inputs and outputs, quantities of treatment chemicals used, concentrations of effluents produced and the fate of these effluents.

5. Describe sampling points established for items 1-4 above and types of tests performed at each sampling point.

6. Provide estimate of nuclear fuel (U^{235}) which will be consumed during life of Units 2 and 3.

7. Describe in detail or provide sketches of the bar racks in the crib house. Include dimensions, spacing, and maximum inlet water velocity.

8. Describe in detail or provide sketch of the traveling screens. Include information such as maximum water flow velocity and speed of travel. Describe whether travel is continuous or intermittent and how debris is removed.

9. Specify exactly where the temperature measurements are made of the bulk water flowing into the canal and the PSM discharge given in the report to Commonwealth Edison Company (dated October 27, 1971) - Subject: Powered Spray Module, Evaporative Water Cooling System. Ref. PSM-105.

10. Describe the operating conditions of the sprays on the canal for the period 6/15/72 - 7/15/72 during which the temperature measurements were taken on the lake.

11. Provide the maximum water flow velocity of intake canal at the Kankakee River at the present time and the estimated water flow velocity at this location under "closed cycle" condition (Units 1, 2, and 3 operating at full capacity).

12. Provide maximum discharge velocity data of water flow to the cooling canal, cooling lake, and Illinois River under present full capacity operation. Provide estimates of the velocities expected under "closed cycle" operation.

13. Provide any zooplankton survey data obtained by surveys conducted on the Illinois, DesPlaines and Kankakee Rivers.

14. Provide a complete description of the deicing-recirculation system, procedures used and actual or anticipated temperatures at the intake both under present operating conditions and under "closed cycle" operation.

15. Provide the actual or estimated flow rates of the blowdown and makeup water at the present time and under closed cycle operation (under full capacity operation of both Units 2 and 3).

16. Provide the estimated quantity and list the noxious non-radioactive, gaseous effluents from the plant due to the operation of the oil fired heating boilers, diesel-generators, etc.

17. The Industrial Bio-Test Laboratory, Inc. monitoring Report (IBT No. W9882), dated May 10, 1972, describes the thermal plumes when Units 1, 2, and 3 were in operation (August 10, 1971). Please provide the same information of the November 1972 period when all three units and the lake were in operation. If no data are available, please so state and estimate the plumes temperatures that would have been expected.

18. State the travel time of water through the spray canal and through each pool of the lake.

19. Furnish the following information relating to the transporation of fuel and radioactive wastes:

    a. New Fuel

        (1) Identification of the shipping container (by manufacturer and model number).
        (2) Shipping distance:
        (3) Number of containers carried by a single truck.
        (4) Number of truckloads per year.
        (5) The number of fuel assemblies expected to be replaced for each year of normal operation.

b. Irradiated Fuel

(1) The length of time irradiated assemblies will remain in the spent fuel storage pool prior to loading into a cask for transport.
(2) Identification of shipping cask (by manufacturer and model number).
(3) Number of fuel assemblies per cask, casks per railcar, and railcars per shipment.
(4) Location of selected fuel reprocessing plant.

c. Solid Radioactive Wastes

(1) Location of offsite disposal facility.
(2) Estimated number of 55-gallon drums and/or casks to be shipped annually.
(3) Estimated number of truckloads or railcars and total curies of solid radioactive waste to be shipped annually.

20. Provide the plans for the nonradiological lake monitoring program and terrestrial monitoring program. Provide any nonradiological monitoring plans for the Illinois, DesPlaines and Kankakee Rivers if different from that carried out from 1969 to 1971. If the previous program is to continue, please so state and indicate duration.