Docket

JAN 9 1974

Docket Nos. 50-237 and 50-249

Commonwealth Edison Company
ATTN: Mr. J. S. Abel
Nuclear Licensing Administrator -
Boiling Water Reactors
Post Office Box 767
Chicago, Illinois 60690

Gentlemen:

Enclosed is a request for additional information relative to hydrologic engineering and flood procedures for Dresden Nuclear Power Station. The additional information will be reviewed on a schedule coinciding with our review relative to conversion of the provisional operating license for Dresden Unit 2 to a full-term operating license. In order to maintain our schedule for full-term license review, we need your response to this request for additional information by February 15, 1974. If you cannot meet the specified date or if your reply to our request is incomplete, the overall schedule for completing our review will have to be extended. Since reassignment of the staff's efforts will require completion of the new assignment prior to returning to this review, the extension of our review schedule will most likely be greater than the delay in your response.

You are requested to provide this information in three signed and notarized originals and thirty-seven copies. If your response makes reference to other submittals, identify the specific paragraph to which reference is made. Please contact us if you have any questions regarding the information requested.

Sincerely,

Original signed by
Dennis L. Ziemann

Dennis L. Ziemann, Chief
Operating Reactors Branch #2
Directorate of Licensing

Enclosure and cc: See next page

Enclosure:
Request for Additional Information

cc w/enclosure:
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HYDROLOGIC ENGINEERING QUESTIONS
DRESDEN NUCLEAR POWER STATION
UNITS 2 & 3
DOCKET NOS. 50-237 & 50-249

1. Provide a detailed discussion of how you would prevent a loss of function of systems necessary to keep all three reactors safely shutdown during and subsequent to a flood situation which caused a maximum "stillwater" elevation of about 525-527 at the containment coincident with wind-generated waves causing runup on exposed faces of structures to elevation about 532. Include a discussion of the availability of personnel and equipment required to accomplish required emergency action, and state how your flood emergency plan will be modified to adequately cope with such a situation. The bases for such a postulation are preliminary staff estimates of a probable maximum flood at the site.

2. Provide an analysis of the ability of your systems to operate, or to shut down the plant and maintain shutdown in each of the following situations:

   a. The flood situation described in question 1 above;

   b. Flood conditions associated with a stillwater elevation of about 520-522, wave runup to about elevation 527, and an earthquake with maximum vertical accelerations of .1g.

516.3

c. A low river level equivalent to a flow of less than 1600 cfs, assuming no artificial water level imposed by Dresden Lock and Dam, coincident with a long term (6 months to a year) of flows less than 2000 cfs. If diversion from Lake Michigan cannot be assured under very extreme drought conditions, then use about 100 and 400 cfs, respectively, in the preceding.

3. Provide your analysis of the ability of site drainage, including the roofs of safety-related structures, to safely pass and/or store rainfall up to the severity of a probable maximum precipitation without the loss of safety-related function.