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Docket Nos. 50-237, 50-249,
50-254, 50-265

AUG 23 1976

Commonwealth Edison Company
ATTN: Mr. R. L. Bolger
Assistant Vice President
Post Office Box 767
Chicago, Illinois 60690

Gentlemen:

We are reviewing your August 2, 1976 submittal on the subject of Dresden Units 2 and 3 and Quad Cities Station Units 1 and 2 Long Term Cooling Capability. The additional information identified in the attachment is required to continue our review.

Please submit the requested additional information in 1 original and 39 copies within 30 days of your receipt of this request.

Sincerely,

Original signed by
Dennis L. Ziemann

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

Enclosure:
Request for Additional
Information

cc w/enclosure:
See next page

OFFICE >	OR:ORB #2	OR:ORB #2	OR:ORB #2			
SURNAME >	PWO'Connor:ro	RDSilver	DLZiemann			
DATE >	8/23/76	8/23/76	8/23/76			



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

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Sincerely,

A handwritten signature in cursive script that reads "Dennis L. Ziemann".

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

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Request for Additional
Information

cc w/enclosure:
See next page

Commonwealth Edison Company

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August 23, 1976

cc w/enclosure:
Mr. Charles Whitmore
President and Chairman
Iowa-Illinois Gas and
Electric Company
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Moline, Illinois 61265

Morris Public Library
604 Liberty Street
Morris, Illinois 60451

ADDITIONAL INFORMATION REQUIREMENTS - LPCI RUNOUT

DRESDEN 2&3

QUAD CITIES 1&2

- 1) For the break location at the LPCI - recirculation piping connection, describe how the system losses were calculated, including a sketch of the system assumed and a tabulation of the head loss in feet for each component in the system (valves orifices, heat exchangers, etc.).
- 2) For the case resulting in largest RNPSH minus ANPSH, describe the NPSH available as a function of time, both short-term and long-term, in the event of a postulated loss-of-coolant accident. Suppression pool temperatures versus time should be indicated and the effect of pool temperature should be included in the calculation.
- 3) Provide the required NPSH vs time for a postulated LOCA with the worst pump configuration (pump configuration resulting in largest RNPSH minus ANPSH) for both short and long term cooling).
- 4) Following a LOCA, what indication of RHR pump flows would the operator have in the control room? What indications would the operator have to know that the RHR pumps were cavitating? What action could be taken to alleviate such operation, and how long would such action take?

- 5) Assuming the most limiting single failure, affecting long term cooling capability, justify your assumption that three pumps is the minimum number of LPCI pumps that may be pumping directly to the break. Be sure to consider diesel failure, valve failures, and spurious LOCA signals from the opposite unit.

- 6) Specify the number of pumps assumed to be available in your ECCS Appendix K Long Term Cooling Analysis.