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Commonwealth Edison Company

ONE FIRST NATIONAL PLAZA ★ CHICAGO, ILLINOIS

Address Reply to:

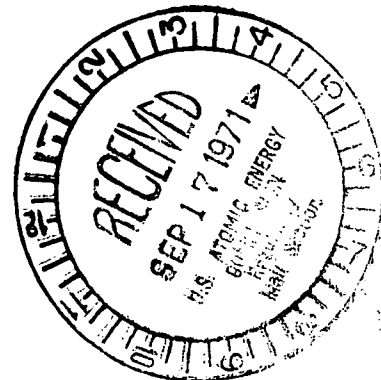
POST OFFICE BOX 767 ★ CHICAGO, ILLINOIS 60690

September 13, 1971

Regulatory

File Cy.

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



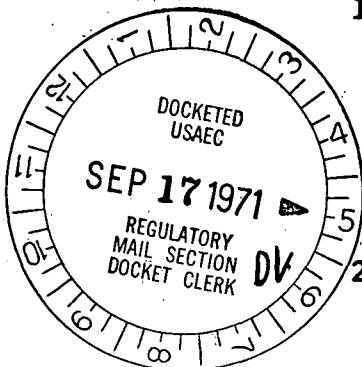
Subject: Performance of the Dresden Units 2 and 3
Emergency Core Cooling Systems

Dear Dr. Morris:

This is in response to your letter of July 16 in which you requested additional information to confirm that the performance of the ECCS for Dresden Units 2 and 3 is in compliance with the criteria of Sections IV A and B of the interim policy statement.

Based on an analysis we have concluded, the performance of the Dresden 2 and 3 ECCS systems is the same as the Quad Cities ECCS system. Information concerning the Quad Cities ECCS was submitted to you in Amendment 27. We have arrived at this conclusion based on the following factors:

1. The emergency core cooling systems employed at Dresden 2 and 3 are identical to those at Quad Cities; that is, they consist of two core spray systems, a low pressure coolant injector system, an automatic pressure relief system and a HPCI system.
2. The design performance of the Dresden and Quad Cities emergency core cooling systems are identical as can be seen by a comparison of Tables 6.2.2 in the Dresden and Quad Cities FSAR.



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3. Although the power level of Quad Cities is 16 MW thermal lower than Dresden 2 and 3 (difference in the design of the clean up system), the loss of coolant accident analyses were performed from the same operating condition that is a MCHFR of 1.9 and a linear heat generation of 17.5 KW per foot.
4. The break spectrum analyzed for Dresden and Quad Cities for both liquid and steam breaks are the same. This can be seen by a comparison of Figures 6.2.1 of the Dresden and Quad Cities FSAR.
5. The arrangement of the electrical equipment of the ECCS on the diesel generator buses is the same for Dresden and Quad Cities.
6. The peaking factors used in the analyses of the Quad Cities and Dresden ECCS were identical.

Based on the above, we request that the material submitted for Quad Cities Units 1 and 2 in Amendment 27 concerning the ECCS performance be incorporated in the Dresden 2 and 3 dockets by reference.

Very truly yours,



W. L. Stiede
Nuclear Licensing Administrator

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