



**Commonwealth Edison**

One First National Plaza, Chicago, Illinois  
Address Reply to: Post Office Box 767  
Chicago, Illinois 60690

December 20, 1979

Mr. D.L. Ziemann, Chief  
Operating Reactors- Branch 2  
Division of Operating Reactors  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Subject: Dresden Station Unit 1  
Core Spray Distribution Modification  
NRC Docket NO. 50-10

- Reference: (a) M.S. Turbak letter to D.L. Ziemann  
dated December 28, 1978.  
(b) D.L. Ziemann letter to C. Reed  
dated February 1, 1979.  
(c) CECO/GE meeting with NRC Staff  
on September 20, 1979.

Dear Mr. Ziemann:

Reference (a) transmitted the General Electric Report NEDO-24164 titled "Evaluation of the Dresden 1 Core Spray Sparger Performance in a Steam Environment" to the NRC Staff. Your transmittal, Reference (b), requested additional information to permit continued staff review.

Our review of your concerns identified several areas that would require additional extensive analysis and testing to bring to a satisfactory conclusion. We have, therefore, pursued another approach which modifies the existing core spray distribution design. A meeting was held with the Staff, Reference (c), to discuss a new "grid" distribution design. The result of that meeting plus continued engineering is a completed core spray "grid" design. The enclosed report, "Dresden-1 Core Spray Program Update" NEDO-24228, Class I, December, 1979 describes the new design, engineering considerations and test program.

This transmittal is being made to permit an early NRC review of the new core spray distribution design in order to provide us with assurance that the new design satisfies all NRC concerns.

Reference (b) questions are no longer applicable because of the new grid design and proposed testing program.

Please contact this office if you have any questions regarding this transmittal.

One (1) original and thirty-nine (39) copies of this letter and enclosure are provided for your use.

Very truly yours,

1742 009

Robert F. Janecek  
Nuclear Licensing Administrator  
Boiling Water Reactor

Enclosures: As Stated

8001110553