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

October 19, 1982

50-237

Mr. Paul O'Connor
Project Manager
Operating Reactors Branch No. 5
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Subject: Dresden 2
SEP Topic: V-11.A, Requirements for Isolation of High and Low Pressure Systems

Reference: T.J. Rausch letter to P. O'Connor dated September 15, 1982.

Dear Mr. O'Connor:

In the above referenced letter we indicated that actuation of relief valve PRV 2-1201-80 on the reactor water cleanup system would eventually result in a low reactor water level scram and automatic RWCU isolation. Further examination of this scenario indicates that the postulated 1300 gpm discharge is approximately six percent of normal feedwater flow, and that the feedwater controller can under normal conditions handle this flow increase and reestablish reactor level before reaching the scram setpoint. Since the 6-inch relief valve discharge is routed to the main condenser the coolant inventory will be retained in the steam/feedwater cycle. The increase in feedwater flow will be readily apparent to the operator, and in combination with the relief valve discharge alarm provides the operator with ample information to diagnose the pressure control valve malfunction and to isolate RWCU manually.

In addition, the diversion of system flow from the secondary side of the regenerative heat exchangers due to relief valve actuation (refer to Dwg. #M-30) will result in the RWCU flow exceeding the 150°F high temperature setpoint downstream of the heat exchangers. This signal will initiate a control room alarm and automatic RWCU system isolation. Also, the increase in steam flow will initiate a low vacuum alarm on the main condenser.

In conclusion, the existing configuration is adequate to handle this transient without either reactor scram or RWCU overpressuration.

Please address any questions you may have concerning this matter to this office.

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One (1) signed original and thirty-nine (39) copies of this transmittal have been provided for your use.

Very truly yours,

Thomas J. Rausch
Nuclear Licensing
Administrator

SPP/ji
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cc: RIII Resident Inspector, Dresden
Gregg Cwalina, SEP Integrated Assessment Project Manager