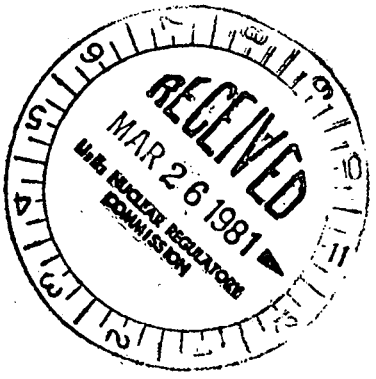
Commonwealth Edison
One First National Plaza, Chicago, Illinois
Address Reply to: Post Office Box 767
Chicago, Illinois 60690

March 20, 1981



Mr. T. A. Ippolito, Chief
Operating Reactors - Branch 2
Division of Operating Reactors
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Subject: Dresden Station Units 2 and 3
Quad Cities Station Units 1 and 2
Response to NRC Staff Informal
Questions Concerning IE Bulletin 80-06
NRC Docket Nos: 50-237/249/254/265

Reference (a): D. L. Peoples letter to J. G. Keppler
dated June 10, 1980.

Dear Mr. Ippolito:

The following information is provided to confirm information previously given to Mr. P. Bender of the NRC staff and NRC staff consultants concerning our response of Reference (a).

1. HPCI System Valves 2301-64, 65, 29 and 30

As indicated in Reference (a), these valves close on HPCI system initiation. Since the valves have a two position, maintained-contact switch, the valves will re-open when reset. However, the reset switch controls the valves only and is not the same switch used to reset the initiating signal. Therefore, the valve reset switch would be used for the express purpose of re-opening the valves (return to normal).

2. HPCI Auxiliary Oil Pump

The HPCI auxiliary oil pump will not deplete the DC power source. The system design provides for an auxiliary oil pump trip when the HPCI turbine shaft-driven oil pump comes up to rated pressure or when the HPCI initiating signals clear.

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3. ADS System

The ADS system initiates when four conditions are simultaneously satisfied--reactor low-low water level, high drywell pressure, two minute timer, and sufficient LPCI or core spray pump discharge pressure. The low-low level signal automatically resets when the condition clears and will also reset the two minute timer if it has not timed out. The high drywell pressure signal must be manually reset if it has cleared and will reset the two minute timer if it has not timed out. The two minute timer can be reset at any time and will cause the valves to reclose, but if the low-low level and high drywell pressure signals are still present it will restart and the valves will open in two minutes. Once the timer has timed out and the valves are opened, resetting either or both of the low-low level and/or high drywell pressure signals will not close the valves.

4. Isolation Condenser Valves 1301-1, 2, and 4 (Dresden only)

The isolation condenser valves 1301-1, 2, and 4 control switches will be changed from a two position, maintained-contact switch to a three position, return to normal switch. This will eliminate the maintained-contact open signal from the circuitry which will prevent the valves from re-opening following reset of the isolation signal.

5. PCIS Group I Valves

The proposed modification is the same as that described for the isolation condenser valves above.

6. RPS System

The RPS system's function is to shut down the reactor by initiating a control rod scram for various off-normal conditions. Once initiated, the scram cannot be reset for 10 seconds to allow all control rod drives to fully insert (maximum Technical Specification travel time of 7 seconds). Once the initiating signal(s) clear and the 10 second timer times out, the scram can be reset. No movement of the control rods takes place until the operator initiates normal control rod withdrawal. The scram discharge volume vent and drain valves re-open after the scram is reset to allow the discharge volume to drain.

7. ACAD/CAM Valves

The ACAD/CAM valves are installed but will not respond to an ESF actuating reset signal. The valves are out-of-service in the closed position. Prior to placing the valves in service their operation will be reviewed against IE Bulletin 80-06 requirements.

8. Off Gas Trip

The off gas isolation valves close following a high radiation signal after a 15 minute timer times out. The valves have two position maintained-contact switches. If the high radiation signal clears, the timer can be reset and the valves will re-open. As long as the high radiation signal persists, the valves cannot be re-opened.

9. Control Room Vent Isolation

Once the initiating signals identified in Reference (a) have cleared, the ventilation system dampers can be reset from the recirculation mode to the outside air mode. Although there are no radiation alarms for the ventilation system, control room area radiation monitors would indicate the presence of high radiation levels. The reset switch for the dampers is used specifically for damper control and does not reset the initiating signals.

10. Reactor Building Ventilation Valves

The reset switch for the reactor building ventilation valves is locally mounted in the turbine building and is used to re-open the valves only. Other reset switches are used to clear the initiating signals.

11. HPCI and RCIC (Quad Cities only) Isolation

After the initiation signals have cleared, the signals can be reset allowing the system valves to be re-opened. The valves do not change position when reset and manual operator action is required to return the valves to normal.

12. RHR Logic Resets (Quad Cities only)

Same as Item 11, above.

13. Group II MO-1001-29 Valve (Quad Cities only)

After the Group II isolation condition has cleared and the isolation signal has been reset, the 1001-29 valve can be reset and will auto-open if shutdown cooling is in progress. The reset is specifically for the valve and does not reset the Group II isolation.

14. Surveillance Testing Program

As indicated in Reference (a), and in telephone conversations with the Staff, surveillance tests which are performed at least each refueling provide detailed verification of system logic and operation, from the process sensors to the actuating devices. These tests have demonstrated proper system performance as well as conformance of the electrical schematics to the as-built condition.

Additional testing of any modifications identified above or in Reference (a) will specifically demonstrate that equipment will not reposition from its emergency condition when the initiating signals are reset.

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

Very truly yours,

Robert F. Janecek

Robert F. Janecek
Nuclear Licensing Administrator
Boiling Water Reactors

cc: J. G. Keppler
RIII Inspector - Dresden
RIII Inspector - Quad Cities
W. Kountanis (EG&G)

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