

DCD-01'

Docket Nos. 50-254/265

AUG 5 - 1982

Mr. L. DelGeorge  
Director of Nuclear Licensing  
Commonwealth Edison Company  
P. O. Box 767  
Chicago, Illinois 60690

Dear Mr. DelGeorge:

Subject: NUREG-0737, Item II.K.3.22, "Automatic Switchover of Reactor Core Isolation Cooling System Suction"

Re: Quad Cities Nuclear Power Station, Units 1 and 2

Item II.K.3.22 of NUREG-0737 required the automatic switchover of the reactor core isolation cooling (RCIC) system suction from the condensate storage tank to the torus. Part "a" of this item required that interim procedures be implemented until plant modifications were accomplished. By prior letter the interim procedures for your facility were approved.

Part "b" of NUREG-0737 Item II.K.3.22 required that plant modifications be completed by January 1, 1982. Your response to our Generic Letter 82-05 provided schedular commitments for completion of modifications. To complete our technical review, you are requested to verify that the acceptance criteria delineated in the enclosure have been satisfied. If the design criteria are unequivocally satisfied, so state. Should any criteria not be met, provide appropriate justification for noncompliance or describe how your design satisfies the intent of the criteria. Please respond within 30 days of the date of this letter.

This request for information was approved by the Office of Management and Budget under clearance number 3150-0065 which expires May 31, 1983. Comments on burden and duplication may be directed to the Office of Management and Budget, Reports Management, Room 3208, New Executive Office Building, Washington, D.C. 20503.

Sincerely,

ORIGINAL SIGNED BY

*V.L. Rooney*

Domenic B. Vassallo, Chief  
Operating Reactors Branch #2  
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Enclosure:  
Acceptance Criteria

cc w/enclosure  
See next page

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Acceptance Criteria

NUREG-0737, Item II.K.3.22

Automatic Switchover of Reactor

Core Isolation Cooling System Suction

1. Modifications to the Reactor Core Isolation Cooling (RCIC) System shall be designed, fabricated, erected and tested to the quality standards commensurate with the importance of the safety functions to be performed, i.e., RCIC modifications shall satisfy the same criteria used in the original RCIC design. Therefore, if the RCIC system is not a safety grade system, then the automatic switchover sensors and circuitry need not be safety grade. However, those portions of the system which were considered to be safety grade in the original licensing basis, such as containment isolation logic and circuitry, shall be safety grade. In addition, nonsafety grade logic and circuits shall be appropriately isolated from safety grade logic and circuits.
2. Regardless of whether the RCIC system is a safety grade system or not, the automatic switchover sensors and circuitry should meet the criteria of IEEE Std. 279-1971 sections 4.9, "Capability for Sensor Checks," and 4.10, "Capability for Test and Calibration."
3. The capability of remote manual switchover (in addition to automatic switchover), the capability of remote manual RCIC flow termination, and the capability of remote manual containment isolation shall be retained.
4. The automatic switchover sensors and circuitry shall be designed for and tested to meet the same seismic design criteria as was used for the RCIC system.
5. The RCIC automatic switchover sensors and circuitry shall be environmentally qualified to the same criteria as was used for the RCIC system.
6. The logic for the switchover shall be such that the condensate storage tank suction valve is not closed until the suppression pool suction valves are fully open.
7. The design shall be such that no single failure within any equipment added to accomplish the automatic switchover of RCIC will interfere with operation of the HPCI system or interfere with the transfer of HPCI suction from the condensate storage tank to the suppression pool.
8. Bypassed and Inoperable Status Indication shall be provided in the control room for the automatic switchover channel(s) if such has been required for the RCIC system. In any case, the positions of the condensate storage tank suction valves and the suppression pool suction valves shall be indicated or be readily available in the control room.

9. If the sensors and/or associated sensing lines are located in an area where they can be exposed to cold weather, heating and ventilation or heat tracing shall be provided to prevent freezing of the sensors and/or associated sensing lines.
10. Emergency procedures should be provided to alert the plant operators to take corrective action prior to overfilling the suppression pool.