

AUG 9 1973

Docket Nos. 50-10, 50-237,
50-249, 50-254, and 50-265

Commonwealth Edison Company
ATTN: Mr. Byron Lee, Jr.
Vice President
Post Office Box 767
Chicago, Illinois 60690

Gentlemen.

Your letter dated July 13, 1973, expressed concern regarding the capability of Quad-Cities Units 1 and 2 and Dresden Units 1, 2, and 3 to meet the Commission's new Appendix J to 10 CFR Part 50, effective March 16, 1973.

In reviewing your request for consideration of the applicability of the Appendix J to Quad-Cities Units 1 and 2 and Dresden Units 2 and 3, we find additional information, itemized below, is needed to complete our evaluation.

1. Submit the Dresden 2/3 and Quad-Cities 1/2 Integrated Primary Containment Leak Test (IPCLT) Program for our review and evaluation. Include the following information:
 - a. The degree to which test methods follow ANSI N45.4-1972.
 - b. A description of the test methods used to detect penetration and isolation valve leakages. In the case of Dresden 2/3, list all the penetrations.
 - c. A description of the test data reduction methods, including the use of a least squares fit, of an upper bound 95% confidence limit, and how instrument errors are accounted for.
2. The Dresden 2/3 (D 2/3) Technical Specifications (TS) and the Quad-Cities 1/2 (QC 1/2) TS state that only personnel airlock door seals shall be tested. The bases for the D 2/3 TS indicate

8010140 662

P

AUG 9 1973

that the inner door could not withstand accident pressure, even with an auxiliary stiffening structure such as a "strongback", in the reverse direction. QC 1/2 TS do not discuss this in its bases. Provide the pressure that the air locks would be capable of safely withstanding using a device such as a strongback on the inner door. The TS for all four plants permit the inner door to be open during operation, thus the outer door and airlock would become part of the containment boundary in the unlikely event of an accident, yet the outer door and airlock do not receive accident pressure testing. Propose a test procedure for the complete airlock.

3. The main steam isolation valves (MSIV) for all four units are presently leak tested using TS 4.7.A.2.h(1) at 25 psig by pressurizing between the two MSIV in the same steam line. The inboard valve is being tested in the reverse direction at less than accident pressure and the outboard valve is tested in the flow direction but at less than accident pressure. The bases section of TS 4.7 does not provide the justification for this test pressure. Provide the basis for the MSIV test pressure and procedure.
4. The manually operated isolation valves on the instrument lines carrying primary system fluid, which are normally open, need not be leak tested if the instrument lines meet all the following criteria:
 - a. The valves are not required for an isolation function in the event of a LOCA.
 - b. The fluid carrying portion of the system remains within the primary or secondary containments.
 - c. The transducers or gauges at the fluid carrying terminations of the instrument lines would retain leak tight integrity even in the unlikely event of a DBA while experiencing the resultant accident conditions of pressure, temperature, and flow velocity.

Describe the design of the fluid carrying instrument lines indicating that the lines either meet the three criteria provided above or provide a leak test program for the valves on the lines that perform an isolation function.

POOR ORIGINAL

AUG 8 1973

The above information is requested within 30 days of the date of this letter and should be submitted as one signed original and thirty-nine additional copies.

The Dresden 1 containment leak rate test program will be addressed in a separate letter.

Sincerely,

Original signed by
Dennis L. Ziemann

Dennis L. Ziemann, Chief
Operating Reactors Branch #2
Directorate of Licensing

cc: Mr. Charles Whitmore
President and Chairman
Iowa-Illinois Gas and
Electric Company
206 East Second Avenue
Davenport, Iowa 52801

John W. Rowe, Esquire
Isham, Lincoln & Beale
Counselors at Law
One First National Plaza
Chicago, Illinois 60670

Morris Public Library

Moline Public Library

Distribution
Docket Files
AEC PDRs
Local PDRs
RP Reading
Branch Reading
JRBuchanan, ORNL
DJSkovholt, L:OR
TJCarter, L:OR
ACRS (16)
RO (3)
OGC
SPawlicki, L:MEB
RRMaccary, L:E
DLZiemann, L:ORB #2
JIRiesland, L:ORB #2
RMDiggs, L:ORB #2

POOR ORIGINAL

OFFICE ▶	L:ORB #2 X7403	L:ORB #2 RDSilver	L:ORB #2 RRMaccary	L:ORB #2 DLZiemann	
PREPARED BY	JIRiesland: sgh	RMDiggs	RRMaccary	DLZiemann	
DATE ▶	8/8/73	8/8/73	8/9/73	8/9/73	