

**Commonwealth Edison**

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

DMD

March 20, 1985 Encl 11

PRIORITY ROUTING	
First	Second
✓ RA	NO 28
✓ DCA	NO 28
✓ DRP	NO 28
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Mr. James G. Keppler  
 Regional Administrator  
 U.S. Nuclear Regulatory Commission  
 Region III  
 799 Roosevelt Road  
 Glen Ellyn, IL 60137

Subject: Quad Cities Station Units 1 and 2  
 Secondary Containment Capability  
 Summary Technical Report  
NRC Docket Nos. 50-254 and 50-265

Dear Mr. Keppler:

Attached in accordance with Section 6.6.C.3 and Table 6.6-1, Area A of Appendix A to DPR-29 and DPR-30, is a summary of the Secondary Containment Leak Rate Test performed for the Quad Cities Station Units 1 and 2 Reactor Building on March 6, 1985. This test was performed in accordance with Section 4.7.C.1.C of the Quad Cities Station Units 1 and 2 Technical Specifications and the results were within the Technical Specification requirements.

If you have any further questions regarding this matter, please contact this office.

Very truly yours,

B. Rybak  
 Nuclear Licensing Administrator

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cc: Quad Cities Resident Inspector

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# Quad-Cities Nuclear Power Station

## Units 1 and 2

### Secondary Containment Leak Rate Test Summary

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#### Introduction

Prior to the Unit Two Cycle Seven Refueling Outage, a Secondary Containment Leak Rate Test was performed on the combined volume of Unit One and Unit Two Secondary Containment Building. The test was performed to demonstrate the ability of the Standby Gas Treatment System (SBGTS) to maintain a one-fourth inch of water vacuum in both Reactor Buildings simultaneously with a filter train flow rate of not more than 4000 cfm. The test was conducted with a local flow indication of 4000 cfm.

#### Secondary Containment Capability Test

The test was initiated with 1/2 'A' SBGTS train in primary by simulating a "HI" radiation signal in the Unit One or Unit Two Reactor Building ventilation monitors. This action isolated the ventilation systems, stopping all supply and exhaust fans, and started the 1/2 'A' SBGTS train. When equilibrium conditions were reached, differential pressure readings were taken. Data was taken at the conclusion of the test following shutdown of the SBGTS and allowing the building to come to equilibrium with the environs.

#### Test Results

Data on wind speed, wind direction, building inside and outside temperatures, and differential building pressures were obtained for a SBGTS flow rate of approximately 4000 cfm on the 1/2 'A' filter train. The test was conducted at near zero wind conditions; therefore, no wind corrections were required.

#### Test Results Corrected to Zero Wind Conditions

<u>Filter Train:</u>	1/2 'A'	<u>Building Wall Dp:</u>	North:	-0.260
<u>Flow Rate:</u>	4000 cfm	(Inches of Water)	South:	-0.275
			East:	-0.250
			West:	-0.250
			Average:	-0.259

The results of the test indicate that the SBGTS is capable of maintaining one-fourth inch of water vacuum under the calm wind conditions with a filter train flow rate of no more than 4000 cfm. Average building differential pressure for the train results in -0.259 inches of water, indicating adequate performance of the Secondary Containment and Standby Gas Treatment System.

Summary of Test Data

March 6, 1985

Quad-Cities 1 & 2 Reactor Building Leak Rate

1/2 'A' SBT Train

<u>Flow (cfm)</u>	<u>Wall Pressure (Inches of Water)</u>			
	<u>North</u>	<u>South</u>	<u>East</u>	<u>West</u>
1. 4000	-0.260	-0.275	-0.250	-0.250
2. 0	+0.00	+0.00	+0.00	+0.00

Summary of Wind and Temperature Conditions

Temperature (F°)

Indoor 78°F

Outdoor 17°F

<u>Elevation Above Grade Level</u>	<u>Wind Velocity</u>	<u>Wind Direction</u>
(Feet)	(MPH)	E
196	0	95°