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

October 28, 1982

Mr. A. Schwencer, Chief
Licensing Branch #2
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, DC 20555

Subject: LaSalle County Station Units 1 and 2
Evaluation of Results of Vacuum
Breaker Test
NRC Docket Nos. 50-373 and 50-374

Reference (a): License NPF-11, Condition 2.C.(32),
Vacuum Breakers.

Dear Mr. Schwencer:

Reference (a) states: "Prior to November 1, 1982, the licensee shall complete a test and shall submit its evaluation of the results which confirm the capability of the vacuum breaker valves to withstand the opening and closing forces associated with pool swell."

Enclosed please find one copy each of:

1. Draft "Reanalysis of the LaSalle Wetwell to Drywell Vacuum Breakers under Pool Swell Loading Conditions" by Continuum Dynamics, Inc.

2. Test Specification for Proof and Leak Testing of Wetwell to Drywell Vacuum Breaker Valve, Rev. 2, dated October, 1982.

3. Test Plan and Procedure for Proof and Leak Testing of Wetwell to Drywell Vacuum Breaker Valve, Rev. 1, dated October, 1982.

4. Test Report for Proof and Leak Testing of the GPE Wetwell to Drywell Vacuum Breaker Valve, Rev. 0, dated October, 1982.

5. NUTECH Drawing 64.4600.0017, Rev. 2, Drywell/Wetwell Vacuum Breaker Valve Replacement Parts, Fabrication Details.

6. NUTECH Drawing 64.4600.0018, Rev. 2, Drywell/Wetwell Vacuum Breaker Valve Compression Ring Assembly Fabrication Details.

7. NUTECH Drawing 64.4600.0019, Rev. 1, Drywell/Wetwell Vacuum Breaker Valve Replacement Parts - Test Installation Drawing.

B001
1/A0

8. NUTECH Drawing 64.4600.0031, Rev. 0, Drywell/Wetwell Vacuum Breaker Valve Bumper Pad Detail.

9. NUTECH Drawing 64.4600.0032, Rev. 0, Drywell/Wetwell Vacuum Breaker Valve Replacement Parts Field Installation Drawing.

Discussion

The valve pallet test velocities were developed by Continum Dynamics, Inc (CDI) for LaSalle. Enclosure 1 reports the target velocities used by Nutech for the testing. It should be noted that this report is being further refined and final velocities are expected to be even lower.

Enclosures 2, 3, and 4 provide the test specification, test plan and procedures, and the test report which were prepared in response to Reference (a) requirements. The test report (Enclosure 4) concluded that "...the GPE 24" wetwell-to-drywell vacuum breaker valves at LaSalle County Station Units 1 and 2, as originally installed, are capable of withstanding pool swell loading without loss of function." Commonwealth Edison Company agrees with this conclusion.

Enclosures 5, 6, 7, 8, and 9 are Nutech drawings which show a proposed modification to the valves. The test report (Enclosure 4) states, "It is also concluded that the modifications to the valve that were tested improves the safety margin and reliability by eliminating the possibility of damage to the valves."

Conclusion

This submittal completes the requirements of Reference (a).

Commitments

In order to improve the safety margin and reliability of the Drywell/Wetwell Vacuum Breaker Valves, Commonwealth Edison voluntarily commits to install the proposed modification package on LaSalle County Station. For Unit 1, the modification will be installed during the first scheduled outage of sufficient duration, but no later than the first refuel outage. For Unit 2, the modification will be installed prior to criticality.

Commonwealth Edison will also submit the official copy of Enclosure 1 to the NRC when available.

Following completion of reproduction, Commonwealth Edison will submit 40 copies of this letter and enclosures 1, 2, 3, and 4 for your use.

If there are any further questions in this matter, please contact this office.

Very truly yours,

C W Schroeder 10/28/82

C. W. Schroeder
Nuclear Licensing Administrator

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cc: NRC Resident Inspector 1/O

SUSSCRIBED AND SWORN to
before me this 28th day
of October, 1982.

Rosalie A. Pinta
Notary Public

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