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10 CFR 50, Appendix J

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U. S. NUCLEAR REGULATORY COMMISSION  
Mail Station Pl-137  
Washington, D.C. 20555

Gentlemen:

**DOCKET 50-301  
POINT BEACH NUCLEAR PLANT, UNIT 2  
FACILITY OPERATING LICENSE DPR-27  
REACTOR CONTAINMENT BUILDING INTEGRATED LEAK RATE TEST**

In accordance with Section 15.4.4.I.D. of the Point Beach Nuclear Plant Technical Specifications and Section V. B. of 10 CFR 50 Appendix J, the following summary technical reports are submitted on the Type A containment integrated leakage rate test conducted during the 1989 Unit 2 refueling shut-down. Also included are a summary of the results from the Type B and C leak tests conducted since the last Type A test. These were performed during the refueling shut-downs of September-November 1986, October-November 1987, and October-November 1988. The Type A test was performed by Wisconsin Electric with assistance from Bechtel Power Corporation. We have enclosed a summary report prepared in accordance with the format specified in ANSI/ANS 56.8 - 1987. The complete documentation, which includes all procedures, equipment calibrations, test data, and results will be retained by Wisconsin Electric and is available for NRC review at the plant.

Summary of Data

The overall as-found total time leakage rate of this Type A test was 0.116%/day at the 95% upper confidence level. This is 58% of the allowable operational leakage rate. The leakage rate reported includes a 0.001%/day penalty for non-standard valve alignments, containment volume changes, and air additions to the containment.

The total as-found leakage of the Type B and C tests conducted during the 1986 refueling outage was greater than 198,901 standard cubic centimeters per minute (sccm), or greater than 86% of  $0.6L_a$ .

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As described further in LER No. 86-005-00, dated October 31, 1986 and LER No. 86-005-01, dated February 9, 1987, the actual value could not be quantified because excessive leakage during two separate Type C tests made it impossible to achieve test pressure. However, after repairs, the overall as-left leakage rate was 14,640 sccm, or 6% of  $0.6L_a$ .

The overall as-found leakage of the Type B and C tests conducted during the 1987 refueling outage was 32,554 sccm or 14% of  $0.6L_a$ . After repairs, the overall leakage rate was 12,115 sccm or 5% of  $0.6L_a$ .

The overall as-found leakage of the Type B and C tests conducted during the 1988 refueling outage was 23,364 sccm or 10% of  $0.6L_a$ . After repairs, the overall leakage rate was 13,736 sccm or 6% of  $0.6L_a$ .

If you have any questions concerning this report, please feel free to contact us.

Very truly yours,



C. W. Fay  
Vice President  
Nuclear Power

Enclosures

Copies to NRC Regional Administrator, Region III  
NRC Resident Inspector