Niagara Mohawk

September 1, 1999
NMP1L 1463

U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555

RE: Nine Mile Point Unit 1
Docket No. 50-220
DPR-63

Subject: ***Special Report; Reactor Containment Building Integrated Leak Rate Test***

Gentlemen:

In accordance with Nine Mile Point Unit 1 (NMP1) Technical Specification 6.9.3.e, Niagara Mohawk Power Corporation is submitting Attachment 1, "Reactor Containment Building Integrated Leak Rate Test." As indicated in the attachment, the testing confirmed that the Technical Specifications 3.3.3/4.3.3 and 6.16 Primary Containment Leakage requirements were satisfactorily met.

Very truly yours,

Robert G. Smith

Robert G. Smith
Plant Manager - NMP1

RGS/KLL/jb
Attachment

xc: Mr. H. J. Miller, Regional Administrator, Region I
Mr. G. K. Hunegs, NRC Senior Resident Inspector
Records Management

1/1

A017

SUMMARY REPORT

REACTOR CONTAINMENT BUILDING

INTEGRATED LEAK RATE TEST

JUNE 1999

1.0 Purpose

The Integrated Leakage Rate Test (ILRT) was performed to verify that the Primary Containment integrated leakage rate is within the acceptance criteria provided in the Nine Mile Point Unit 1 Technical Specifications 3.3.3/4.3.3 and 6.16, in accordance with 10CFR50, Appendix J. This Summary Report meets the reporting requirements of Nine Mile Point Unit 1 Technical Specification 6.9.3.e.

2.0 Procedure

The ILRT was performed in accordance with Procedure N1-TSP-201-001, Revision 4, "Integrated Leak Rate Test of Primary Containment Type A Test," which is maintained on file at the facility. The test was performed by pressurizing the containment to accident pressure (35 +0/-1.4 psig) for a minimum of 8 hours, and then using measured containment pressures and temperatures to determine the air mass rate of change. The Total Time Technique of Bechtel Topical Report, BN-TOP-1, Revision 1, "Testing Requirements for Integrated Leakage Rate Testing of Primary Containment Structures for Nuclear Power Plants," was used to determine the final results.

3.0 Test Results

For Nine Mile Point Unit 1:

"As-Left" Acceptance Criteria $< 0.75\ L_a$ (where $0.75\ L_a = 1.125$ w%/day)

Calculated "As-Left" 95% Upper Confidence Level (UCL) Leakage Rate Test Result = 0.4865 w%/day

"As-Found" Acceptance Criteria $< 1.0\ L_a$ (where $L_a = 1.5$ w%/day)

Calculated "As-Found" 95% UCL Leakage Rate Test Result = 1.230 w%/day

4.0 Performance Summary

The 1993 reduced pressure ILRT had an acceptable "As-Left" leakage rate of 0.4634 w%/day. Nine Mile Point Unit 1 has performed two consecutive periodic ILRTs with a calculated performance leakage rate of less than 1.0 L_a. The elapsed time between the two tests was greater than 24 months, and the 1999 test was performed at peak accident pressure. Therefore, in accordance with 10CFR50, Appendix J (Primary Reactor Containment Leakage Testing for Water-Cooled Power Reactors), Option B, the frequency for subsequent ILRTs is at least one per 10 years.