

**AEC DISTRIBUTION FOR PART 50 DOCKET MATERIALS**  
(TEMPORARY FORM)

CONTROL NO: 7497

FILE: \_\_\_\_\_

FROM: Niagara Mohawk Power Corporation Syracuse, N. Y. 13202 R. R. Schneider			DATE OF DOC  10-3-73	DATE REC'D  10-9-73	LTR  XX	MEMO	RPT	OTHER
TO:  Mr. O'Leary			ORIG  1 signed	CC	OTHER	SENT AEC PDR X SENT LOCAL PDR X		
CLASS	UNCLASS	PROP INFO	INPUT	NO CYS REC'D  1		DOCKET NO:  50-220		
	XXX							

DESCRIPTION: Ltr trans the following:

ENCLOSURES: REPORT: "Secondary Containment Integrated Leak Rate Test".

( 40 cys rec'd)

**ACKNOWLEDGED**  
**Do Not Remove**

PLANT NAME: Nine Mile Unit # 1

**FOR ACTION/INFORMATION**

10-10-73

AB

BUTLER(L)	SCHWENCER(L)	✓ ZIEMANN(L)	REGAN(E)
W/ Copies	W/ Copies	W/7 Copies	W/ Copies
CLARK(L)	STOLZ(L)	DICKER(E)	
W/ Copies	W/ Copies	W/ Copies	W/ Copies
GOLLER(L)	VASSALLO(L)	KNIGHTON(E)	
W/ Copies	W/ Copies	W/ Copies	W/ Copies
KNIEL(L)	SCHEMEL(L)	YOUNGBLOOD(E)	
W/ Copies	W/ Copies	W/ Copies	W/ Copies

**INTERNAL DISTRIBUTION**

<u>REG FILE</u>	<u>TECH REVIEW</u>	<u>DENTON</u>	<u>LIC ASST</u>	<u>A/T IND</u>
✓ AEC PDR	HENDRIE	GRIMES		BRAITMAN
OGC, ROOM P-506A	SCHROEDER	GAMMILL	✓ DIGGS (L)	SALTZMAN
✓ MUNTZING/STAFF	✓ MACCARY	✓ KASTNER	GEARIN (L)	
CASE	KNIGHT	BALLARD	GOULBOURNE (L)	<u>PLANS</u>
GIAMBUSO	PAWLICKI	SPANGLER	LEE (L)	MCDONALD
BOYD	SHAO		MAIGRET (L)	DUBE
MOORE (L) (BWR)	✓ STELLO	<u>ENVIRO</u>	SERVICE (L)	
DEYOUNG (L) (FWR)	HOUSTON	MULLER	SHEPPARD (E)	<u>INFO</u>
✓ SKOVHOLT (L)	NOVAK	DICKER	SMITH (L)	C. MILES
P. COLLINS	ROSS	KNIGHTON	TEETS (L)	
	IPPOLITO	YOUNGBLOOD	WADE (E)	
<u>REG OPR</u>	✓ TEDESCO	REGAN	WILLIAMS (E)	
✓ FILE & REGION (2)	LONG	PROJECT LDR	WILSON (L)	
✓ MORRIS (2)	LAINAS			
✓ STEELE	BENAROYA	<u>HARLESS</u>		
	VOLLNER			

**EXTERNAL DISTRIBUTION**

✓ 1 - LOCAL PDR Oswego, N. Y.	(1) (2) (10) NATIONAL LAB'S	1 - PDR-SAN/LA/NY
✓ 1 - DTIE (ABERNATHY)	1 - R. Schoonmaker, OC, GT, D-323	1 - GERALD LELLOUCHE
✓ 1 - NSIC (BUCHANAN)	1 - W. PENNINGTON, Rm E-201 GT	BROOKHAVEN NAT. LAB
1 - ASLB (YORE/SAYRE/	1 - CONSULTANT'S	1 - AGMED (WALTER KOESTER
WOODARD/"H" ST.	NEWMARK/BLUME/AGBABIAN	RM-C-427-GT
✓ 16 - CYS ACRS <del>HOLDING</del> SENT TO LIC ASST.	1 - GERALD ULRIKSON... ORNL	✓ 1 - RD..MULLER... F-309 GT
R. DIGGS ON 10-10-73		



Regulatory

File Cy

NIAGARA MOHAWK POWER CORPORATION

NIAGARA  MOHAWK

300 ERIE BOULEVARD WEST  
SYRACUSE, N. Y. 13202

October 3, 1973



Mr. John F. O'Leary  
Director of Licensing  
United States Atomic Energy Commission  
Washington, D. C. 20545

Dear Mr. O'Leary:

Nine Mile Point Nuclear Station Unit 1  
Provisional Operating License DPR-17  
Docket No. 50-220

In conformance with the Technical Specifications for  
Nine Mile Point Nuclear Station Unit 1, we are enclosing forty (40)  
copies of the Secondary Containment Leak Rate Test completed during the  
last operating cycle.

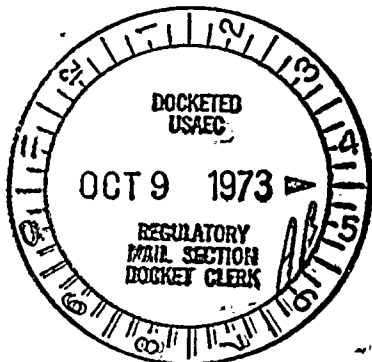
Very truly yours,



R. R. Schneider  
Vice President - Electric Operations

RRS:cm

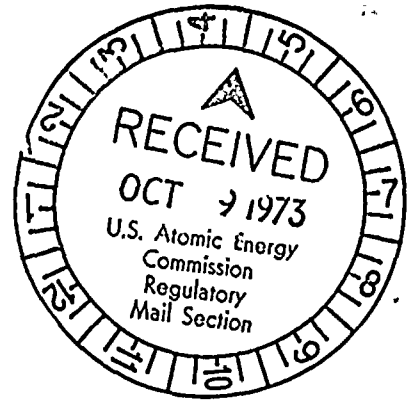
Enclosures



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SECONDARY CONTAINMENT INTEGRATED LEAK TEST



## SUMMARY REPORT

### SECONDARY CONTAINMENT INTEGRATED LEAK TEST

#### 1.0 PURPOSE

The purpose of the test(s) was to investigate the leak rate of the secondary containment under various wind conditions. The results of the test were used to verify compliance with license limits. (See Technical Specifications 3.4.1 and 4.4.1)

#### 2.0 PROCEDURE

The Reactor Building was isolated and one of the two emergency ventilation systems placed into operation.

2.1 The door into the Reactor Building Railway Bay was open so that leakage through the railroad door is taken into account.

#### 3.0 TEST(S) DATA

The test data is presented in the following Table:

TABLE I - TEST DATA

	4-11-73	4-11-73
	#11	#12
Wind Speed (mph)	10	10
Wind Direction	SSW	SSW
Outside Temp. (°F)	29°F	29°F
Inside Temp. (°F)	72°F	72°F
Rx. Bldg. ΔP ("H <sub>2</sub> O)	.32	.32
Emer. Vent Flow Rate (cfm)	1500	1500

#### 4.0 SPECIFICATION

Figure 3.4.1 of the Technical Specifications represents the allowable limit. The differential pressure between the Reactor Building and the external static pressure shall be at least as negative as shown on Figure 3.4.1 for

August 1973





#### 4.0 SPECIFICATION CONT'D

the test condition windspeed and an emergency ventilation fan flow rate of less than 2000 cfm.

#### 5.0 EVALUATION OF REACTOR BUILDING LEAK RATE TESTS

Leak rate test was performed on the Reactor Building on April 11, 1973. In both tests each emergency ventilation fan was tested. The results of the test show the Reactor Building Leak Rate to be within allowable limits.

The wind conditions existing for each System tested was 10 MPH from the South. The emergency ventilation fan flow rate necessary to obtain the required  $\Delta P$  (  $\sim -.28$  "H<sub>2</sub>O ) was well below the maximum allowed. A fan flow rate of  $\sim 1500$  cfm produced a building differential of  $-.32$  to  $-.37$  "H<sub>2</sub>O.



FIGURE 3.4.1  
REACTOR BUILDING PRESSURE

