

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8307260155, DOC DATE: 83/07/22, NOTARIZED: NO, DOCKET # 05000220  
 FACIL: 50-220 Nine Mile Point Nuclear Station, Unit 1, Niagara Power  
 AUTH NAME: AUTHORITY AFFILIATION  
 LEMPGES, T.E. Niagara Mohawk Power Corp.  
 RECIP NAME: RECIPIENT AFFILIATION  
 VASSALLO, D.B. Operating Reactors Branch 2

SUBJECT: Responds to Generic Ltr 83-08 re potential failure mode of vacuum breakers during chugging & condensation oscillation phases of blowdown to torus during LOCA. No mods to valves required.

DISTRIBUTION CODE: A0255 COPIES RECEIVED: LTR 1 ENCL 5 SIZE: 1/2/1/1/1/1  
 TITLE: OR Submittal: USI A-7 Mark I Containment

NOTES:

	RECIPIENT ID CODE/NAME	COPIES	LTR	ENCL	RECIPIENT ID CODE/NAME	COPIES	LTR	ENCL
	NRR ORB2 BC 01	4	0	0				
INTERNAL:	EDO	1	0	0	ELD/HDS3	13	1	0
	NRR DIR	1	0	0	NRR SIEGEL B	5	5	5
	NRR/DE/MEB	4	4	4	NRR/DE/MTEB	1	1	1
	NRR/DI/ORAB 10	1	1	1	NRR/DSI/CSB 11	1	1	1
	REG FILE 04	1	1	1	RGN1	1	1	1
EXTERNAL:	ACRS 12	10	3	3	LPDR 03	1	1	1
	NRC/PDR 02	1	1	1	NSIC 05	1	1	1
	NTIS	1	1	1				

TOTAL NUMBER OF COPIES REQUIRED: LTR 35 ENCL 21



July 22, 1983

Mr. Domenic B. Vassallo, Chief  
 Operating Reactors Branch No. 2  
 Division of Licensing  
 U. S. Nuclear Regulatory Commission  
 Washington, D.C. 20555

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

Dear Mr. Vassallo:

Your Generic Letter 83-08 required submittal of information related to a potential failure mode of the vacuum breakers during chugging and condensation oscillation phases of blowdown to the torus during a loss of coolant accident. Our letter of April 27, 1983 indicates that information would be provided by July 25, 1983. The following provides that requested information.

The Continuum Dynamics, Inc. Technical Note 82-31 "Mark I Vacuum Breaker Improved Valve Dynamic Model - Model Development and Validation" explains and provides generic work describing the development of a vacuum breaker dynamic model for the calculation of valve closing impact velocity. This model has been used to determine loads on specific valve applications and serves as the basis for valve modifications associated with the Mark I Containment program. A plant unique evaluation was performed for Nine Mile Point Unit 1. This evaluation showed that no vacuum breaker valve actuation was predicted to occur during a chugging transient; therefore, no modifications to these valves were required.

Sincerely,

*T. E. Lempges*  
 T. E. Lempges

Vice President - Nuclear Generation

TEL/DAC:bd

A025  
 1/0

SECRET

CONFIDENTIAL  
EXCLUDED FROM AUTOMATIC  
DOWNGRADING AND  
DECLASSIFICATION

CONFIDENTIAL  
EXCLUDED FROM AUTOMATIC  
DOWNGRADING AND  
DECLASSIFICATION

CONFIDENTIAL

CONFIDENTIAL  
EXCLUDED FROM AUTOMATIC  
DOWNGRADING AND  
DECLASSIFICATION

SECRET

CONFIDENTIAL  
EXCLUDED FROM AUTOMATIC  
DOWNGRADING AND  
DECLASSIFICATION

CONFIDENTIAL