

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8406130084 DOC. DATE: 84/06/08 NOTARIZED: NO DOCKET # 05000220
 FACIL: 50-220 Nine Mile Point Nuclear Station, Unit 1, Niagara Powe
 AUTH. NAME AUTHOR AFFILIATION
 MANGAN, C.V. Niagara Mohawk Power Corp.
 RECIP. NAME RECIPIENT AFFILIATION
 VASSALLO, D.B. Operating Reactors Branch 2

SUBJECT: Responds to Generic Ltr. 84-09 re NRC decision that hydrogen recombiner capability not required for inerted Mark I containments. Purge/repressurization sys. not primary means relied upon for hydrogen control at facility.

DISTRIBUTION CODE: A025S COPIES RECEIVED: LTR 1 ENCL 0 SIZE: 2
 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				
INTERNAL:	EDO		1	0	ELD/HDS3	13	1	0
	NRR DIR		1	0	NRR SIEGEL, B		5	5
	NRR/DE/MEB		4	4	NRR/DE/MTEB		1	1
	NRR/DL/ORAB 10		1	1	NRR/DL/TAPMG		1	1
	NRR/DSI/CSB 11		1	1	REG FILE	04	1	1
	RGN1		1	1				
EXTERNAL:	ACRS 12		10	3	LPDR	03	1	1
	NRC PDR 02		1	1	NSIC	05	1	1
	NTIS		1	1				

... ..

... ..

... ..

June 8, 1984

Director of Nuclear Reactor Regulation
Attention: 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:

Generic Letter 84-09 transmitted the Nuclear Regulatory Commission's decision that hydrogen recombiner capability was not required for inerted Mark I containments. The relevance of this decision to Nine Mile Point Unit 1 depends on confirmation of the applicability of the Boiling Water Reactor Owners Group report entitled "Generation and Mitigation of Combustible Gas Mixtures and Inerted BWR Mark I Containments" and certain technical criteria. The technical criteria include technical specification limits on oxygen concentration in containment, use of pneumatic control systems in containment, and sources of oxygen in containment other than radiolysis. The applicability of each of these to Nine Mile Point Unit 1 is discussed below.

The oxygen concentration in the Nine Mile Point Unit 1 containment is maintained below four percent when the containment is required to be inerted, in accordance with Technical Specification 3.3.1. Inerting the containment assures that the containment atmosphere will not reach combustible limits following an accident.

There are no pneumatic controls inside the containment. Power operated valves located inside containment are motor operated. The relief valves are actuated by electrical solenoids.

There are no significant sources of oxygen in the containment other than radiolysis of the reactor coolant and the suppression pool. The instrument and service air supplies to the containment are disconnected prior to plant startup. Nine Mile Point Unit 1 does not utilize a main steam isolation valve leakage control system and containment access openings rely on compression fittings to obtain a seal. Nitrogen is used, where necessary, to pressurize containment penetrations. Air in leakage past the purge valves is not expected since the containment would be at a higher pressure relative to atmosphere following an accident.

A025
1/10

Niagara Mohawk participated in the development of the BWR Owners Group report "Generation and Mitigation of Combustible Gas Mixtures in Inerted BWR Mark I Containment". Our preliminary assessment indicates that the results of the report are applicable to Nine Mile Point Unit 1. Our assessment is based primarily on the conservatisms of the report with respect to Nine Mile Point Unit 1. Specifically, the ratio of core power/containment volume for Nine Mile Point Unit 1 is significantly lower than that of the base plant in the Owner's Group report. We will report the results of our final evaluation by June 29, 1984.

Based on the above information and in accordance with Generic Letter 84-09, a purge/repressurization system is not the primary means relied upon for hydrogen control at Nine Mile Point Unit 1. Accordingly, hydrogen recombiner capability is not required and Niagara Mohawk hereby withdraws our request for exemption to 10CFR50.44 filed on October 28, 1983.

Sincerely,

NIAGARA MOHAWK POWER CORPORATION

C. V. Mangan

C. V. Mangan
Vice President

Nuclear Engineering and Licensing

BDW/bd

... the ... of ...
... the ... of ...
... the ... of ...
... the ... of ...
... the ... of ...
... the ... of ...
... the ... of ...
... the ... of ...

... the ... of ...
... the ... of ...
... the ... of ...
... the ... of ...
... the ... of ...
... the ... of ...
... the ... of ...
... the ... of ...

... the ... of ...
... the ... of ...
... the ... of ...
... the ... of ...
... the ... of ...
... the ... of ...
... the ... of ...
... the ... of ...