# REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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FACIL:50-220 Nine Mile Point Nuclear Station, Unit 1, Niagara Powe	05000220
AUTH.NAME AUTHOR AFFILIATION	
MANGAN,C.V. Niagara Mohawk Power Corp.	
RECIP.NAME RECIPIENT AFFILIATION	
VASSALLO,D.B. Operating Reactors Branch 2	•
SUBJECT: Forwards summary of changes made to fire brigade training program Fine brigade training condensed steam & mechanical	

fundamental course from 80 h to 40 h.

# NOTES:

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NIAGARA MOHAWK POWER CORPORATION/300 ERIE BOULEVARD WEST, SYRACUSE, N.Y. 13202/TELEPHONE (315) 474-1511

September 4, 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:

8409100308 840904 PDR ADDCK 05000220

During a telephone conversation on June 25, 1982, members of your staff indicated the approach to fire brigade training presented by Niagara Mohawk would meet the intent of 10CFR50 Appendix R regarding training of the fire brigade. A portion of this approach was based on an 80-hour course on steam and mechanical fundamentals, including engineered safeguard systems, auxiliary plant systems and electrical distribution. Recently, Niagara Mohawk has condensed this steam and mechanical fundamentals course into a 40 hour course. As a result, the duration of the initial fire brigade training has been changed, although the material content remains the same. The purpose of this letter is to summarize the changes we have made to the fire brigade training program.

Initial training that new members of the fire brigade receive is currently divided into two cycles, an outline of which is provided in Attachment 1. Cycle I is the revised steam and mechanical fundamentals course. At the conclusion of Cycle I, the individuals will have a general understanding of Boiling Water Reactor operation and the importance of nuclear safety systems. Cycle II is an 80-hour detailed systems description course which will provide the fire department with sufficient training to understand the effects of fire and fire suppressants on safe shutdown capability. The scope of the Cycle II training is equivalent to that given to a reactor operator and will be given

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September 4, 1984 Page 2

to the fire brigade members on an annual basis. The fire brigade training still includes the general employee training (i.e. radiation protection, quality assurance, administrative procedure indoctrination) and the required fire training (i.e. strategy, tactic, fire systems, etc.).

Sincerely,

NIAGARA MOHAWK POWER CORPORATION

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C. V. Mangan Vice President Nuclear Engineering and Licensing

JTD/djm Attachment



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I. Purpose:

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Cycle 1 - The purpose of Cycle I training is to provide Nine Mile Point Fire Department Personnel with an introduction to Boiling Water Reactor systems operation and to prepare them to receive the in-depth training provided in Cycle II.

Particular emphasis will be placed on nuclear safety systems and electrical distribution, as needed, to ensure a safe shutdown can be achieved from any operating condition.

At the conclusion of Cycle I, the student should have a general understanding of Boiling Water Reactor operation and the importance of nuclear safety systems.

Cycle II - The purpose of Cycle II training is to provide the Fire Chiefs and members of the Nine Mile Point Fire Department with sufficient training to understand the effects of fire and fire suppressants on safe shutdown capability. The scope of that training shall be equivalent to that received by a reactor operator.

II. Requirements for Class:

Plant specific Nuclear Safety Systems training is conducted in accordance with the requirements of:

10CFR50, Appendix R Branch Technical Position - 9.5.1 Regulatory Guide - 1.120

- III. Prerequisites:
  - Instructor The instructor for this material has a knowledge of the course equivalent to that gained in a reactor operator license class.
  - Student The students for these classes shall be members of the Nine Mile Point Fire Department or other persons designated as having a need for this level of knowledge.

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- IV. Lesson Material:
  - A. Schedule/Outline Attached

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B. Topics Covered:

Cycle l	-	"Introdu	uction	to	Operations Technology"
		Unapter	5.0	-	Ine Bolling water Reactor
			5.1	-	Uverall Description of the Steam
L			5 0		Decie Steen Loop
			5.2		The Depater
			5.3 E /		The Reducor Depotor Decinculation System
			0.4 E E	-	Main Stoom System
			0.0 E C	-	Main Tunhino
			5.0 5.7	-	Main Turbine Condensate and Feedwaten Systems
			5.7	-	condensate and recumater systems
		Chapter	6.0	-	Instrumentation and Control
		-	6.1	-	Introduction
			6.2	-	Basic Instrumentation and Control
			6.3	-	Reliability Consideration
٣			6.4		Control of the Reactor and Coolant
					System
			6.5	-	Control of the Turbine
			6.6	-	Protection of the Public
			6 <b>.</b> 7	-	Protection of Plant Equipment
٣		Chapter	7.0	-	Plant Electrical Systems
		•	7.1	-	General
4			7.2	-	Station Generating and
			7 2		Auviliany AC Dowon Distribution
	1		7.3	-	Station Auxiliany DC Equipment
1			/•4	-	Station Auxillary be Equipment
	1	Chapter	8.0	-	Core Standby Cooling Systems
			8.1	-	General
			8.2	-	Primary Containment
			8.3	-	Primary Containment Isolation System
			8.4	-	Drywell Inerting and Containment
1					Atmospheric Dilution System
			8.5	-	Secondary Containment
			8.6	-	Reactor Building Ventilation
			8.7		Emergency Ventilation
			8.8	-	Emergency Cooling
			8.9	-	Automatic Depressurization System
			8.10	-	High Pressure Loolant Injection
			8.11	-	Lore Spray
			ö.12		Containment Spray
			8.13	-	Snutdown Looling System
			8.14	-	nead Spray
			0•12		LIQUID POISON SYSTEM

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IV. Lesson Material: (Continued)

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B. Topics Covered: (Continued)

Cycle	II	-	Operatio	ons	Technolog	Ъ
Module	I۷		Section	1	-	Primary Containment System
			Section	2	-	Primary Containment Isolation
						System
			Section	3	-	Drywell Inerting and CAD
			Section	4	-	Secondary Containment
			Section	5	-	Reactor Building Ventilation
			Section	6	-	Emergency Ventilation
			Section	7	-	Emergency Cooling
			Section	8	-	Automatic Depressurization System
						(ADS)
			Section	9	-	High Pressure Coolant Injection (HPCI)
			Section	10	-	Core Spray
			Section	11	-	Containment Spray
			Section	13	-	Shutdown Cooling System
			Section	15	- ,	Liquid Poison System
Module	II		Section	5	-	Control Rod Drive Hydraulics
Module	VII		Section	9	-	Electrical Distribution
Module	VIII		Section	4	-	Fuel Pool Cooling and Cleanup

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