

## NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

FILE NUMBER

TO:

Mr. George Lear

FROM:

Niagara Mohawk Power Corp.  
Syracuse, New York  
Mr. Gerald K. Rhode

DATE OF DOCUMENT

11/30/76

DATE RECEIVED

12/8/76.

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☐ COPY☐ NOTORIZED  
☒ UNCLASSIFIED

PROP

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## DESCRIPTION

Ltr. w/attached....re their 10/18/76 ltr.  
and our 8/11/76 ltr....concerning degraded  
grid voltage condition.

(2-P)

## PLANT NAME:

Ninr Mile Point #1

## ENCLOSURE

ACKNOWLEDGED

DO NOT REMOVE

## SAFETY

## FOR ACTION/INFORMATION

ENVIRO 12/8/76

RJL

ASSIGNED AD:		ASSIGNED AD:
<input checked="" type="checkbox"/> BRANCH CHIEF:	Lear (5)	<input checked="" type="checkbox"/> BRANCH CHIEF:
<input checked="" type="checkbox"/> PROJECT MANAGER:	Nowicki	<input checked="" type="checkbox"/> PROJECT MANAGER:
<input checked="" type="checkbox"/> LIC. ASST. :	Parrish	<input checked="" type="checkbox"/> LIC. ASST. :

## INTERNAL DISTRIBUTION

<input checked="" type="checkbox"/> REG FILE	SYSTEMS SAFETY	PLANT SYSTEMS	SITE SAFETY &
<input checked="" type="checkbox"/> NRC PDR	HEINEMAN	TEDESCO	ENVIRO ANALYSIS
<input checked="" type="checkbox"/> I & E (2)	SCHROEDER	BENAROYA	DENTON & MULLER
<input checked="" type="checkbox"/> OELD		LAINAS	
<input checked="" type="checkbox"/> GOSSICK & STAFF	ENGINEERING	<input checked="" type="checkbox"/> IPPOLITO	ENVIRO TECH.
MIPC	MACARRY	KIRKWOOD	ERNST
CASE	KNIGHT		BALLARD
HANAUER	SIHWEIL	OPERATING REACTORS	SPANGLER
HARLESS	PAWLICKI	STELLO	
			SITE TECH.
PROJECT MANAGEMENT	REACTOR SAFETY	OPERATING TECH.	GAMMILL
BOYD	ROSS	<input checked="" type="checkbox"/> EISENHUT	STAPP
P. COLLINS	NOVAK	<input checked="" type="checkbox"/> SHAO	HULMAN
HOUSTON	ROSZTOCZY	<input checked="" type="checkbox"/> BAER	<input checked="" type="checkbox"/> Verduzky
PETERSON	CHECK	<input checked="" type="checkbox"/> BUTLER (3)	SITE ANALYSIS
MELTZ		<input checked="" type="checkbox"/> GRIMES	VOLLMER
HELTEMES	AT & I		BUNCH
SKOVHOLT	SALTZMAN		<input checked="" type="checkbox"/> J. COLLINS
	RUTBERG		KREGER

## EXTERNAL DISTRIBUTION

## CONTROL NUMBER

<input checked="" type="checkbox"/> LPDR: Oswego, N. Y.	NAT. LAB:	BROOKHAVEN NAT. LAB.
<input checked="" type="checkbox"/> TIC:	REG V.IE	ULRIKSON (ORNL)
<input checked="" type="checkbox"/> NSIC:	LA PDR	
<input checked="" type="checkbox"/> ASLB:	CONSULTANTS:	
<input checked="" type="checkbox"/> ACRS 16 CYS -HOLDING/SENT :	Car. B. (12/8/76)	

T. mby  
12292

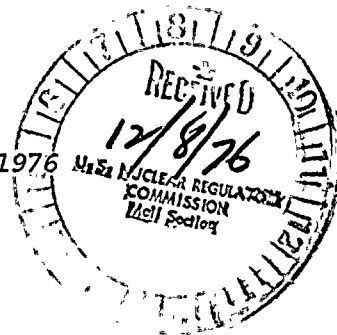
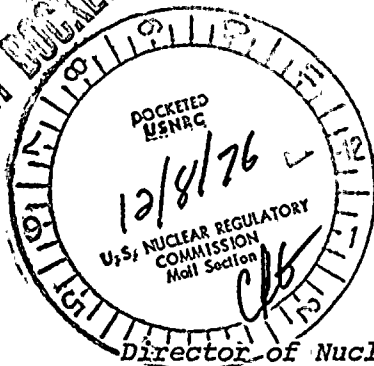
25

NIAGARA MOHAWK POWER CORPORATION

NIAGARA  MOHAWK

300 ERIE BOULEVARD WEST  
SYRACUSE, N. Y. 13202

November 30, 1976



Director of Nuclear Reactor Regulation  
Attn: Mr. George Lear, Chief  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

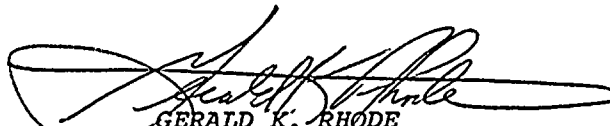
Re: Nine Mile Point Unit 1  
Docket No. 50-220  
DPR-63

Dear Mr. Lear:

My October 18, 1976 letter provided an analysis of Nine Mile Point Unit 1 during a degraded grid voltage condition. The attachment to this letter provides additional information describing a design modification to assure operation of equipment and associated controls during a degraded condition. This information completes our response to your August 11, 1976 letter.

Very truly yours,

NIAGARA MOHAWK POWER CORPORATION

  
GERALD K. RHODE  
Vice President - Engineering

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/sz

Attachment

1/2

1/2

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Question No. 4

Provide a description of any proposed actions or modifications to your facility based on the results of the analyses performed in response to items 1-3 above.

Response

Two additional undervoltage relays will be installed on each 4160 volt powerboard (powerboards 102 and 103). The new relays will have inverse time and fast reset time characteristics. The set point of each relay will be 3600 volts. This is the minimum operating voltage level for the 4000 volt motors. The logic scheme for the new undervoltage relays will be the same as the existing undervoltage relays described in Response 2 of the October 18, 1976 letter. The existing undervoltage relays with the present setting of 3257 volts will be retained to provide backup protection for the new undervoltage relays. The modification will be installed during the Spring, 1977 refueling outage.

