

50-220

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

FILE NUMBER

TO: Mr Lear

FROM: Niagara Mohawk Pwr Corp
Syracuse, NY
G K RhodeDATE OF DOCUMENT
10-1-76

DATE RECEIVED 10-4-76

☒ LETTER
☒ ORIGINAL
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☒ UNCLASSIFIED

PROP

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1 signed

DESCRIPTION

Ltr re our 9-14-76 ltr...furnishing info
concerning potential missile damage from
solid catwalk.....

ENCLOSURE

PLANT NAME: Nine Mile Pt #1

Do NOT REMOVE
ACKNOWLEDGED

SAFETY

FOR ACTION/INFORMATION

ENVIRO

10-6-76

ehf

ASSIGNED AD:

ASSIGNED AD:

BRANCH CHIEF:

BRANCH CHIEF:

PROJECT MANAGER:

PROJECT MANAGER:

LIC. ASST.:

LIC. ASST.:

Lear (5)
Gilbert
Parrish

INTERNAL DISTRIBUTION

REG FILE

SYSTEMS SAFETY

PLANT SYSTEMS

SITE SAFETY &

NRC PDR

HEINEMAN

TEDESCO

ENVIRO ANALYSIS

I & E (2)

SCHROEDER

BENAROYA

DENTON & MULLER

OELD

LAINAS

GOSSICK & STAFF

ENGINEERING

IPPOLITO

ENVIRO TECH.

MIPC

MACCARRY

KIRKWOOD

ERNST

CASE

KNIGHT

BALLARD

HANAUER

SINWEIL

OPERATING REACTORS

SPANGLER

HARLESS

PAWLICKI

STELLO

SITE TECH.

PROJECT MANAGEMENT

REACTOR SAFETY

OPERATING TECH.

GAMMILL

BOYD

ROSS

EISENHUT

STEEP

P. COLLINS

NOVAK

SHAO

HULMAN

HOUSTON

ROSZTOCZY

BAER

SITE ANALYSIS

PETERSON

CHECK

BUTLER

VOLLNER

MELTZ

GRIMES

BUNCH

HELTEMES

AT & I

J. COLLINS

SKOVHOLT

SALTZMAN

KREGER

EXTERNAL DISTRIBUTION

CONTROL NUMBER

LPDR: Downey, NY

NAT LAB:

BROOKHAVEN NAT LAB

TIC:

REG. VIE

ULRIKSON(ORNL)

NSIC:

LA PDR

ASLB:

CONSULTANTS

ACRS/PCYS HOLDING/SENT

To LA Parrish

10025

10-10-57

10-10-57

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Regulatory Docket File

NIAGARA MOHAWK POWER CORPORATION

NIAGARA  MOHAWK

300 ERIE BOULEVARD WEST
SYRACUSE, N.Y. 13202

October 1, 1976

Director of Nuclear Reactor Regulation
Attn: Mr. George Lear, Chief
Operating Reactors Branch #3
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

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

Dear Mr. Lear:

This is in response to your September 14, 1976 letter which requested an analysis of potential missile damage from the solid catwalk at Nine Mile Point Unit 1. Analyses performed by General Electric and Teledyne Materials Research established that the hypothetical instantaneous double-ended break of a 16 inch diameter or larger pipe would be required to provide sufficient energy to potentially cause the catwalk to act as a missile. The only piping in that category at Unit 1 are the Main Steam and Reactor Recirculation lines.

The probability of this 16 inch or greater hypothetical pipe break occurring is very conservatively calculated at 4×10^{-5} per year. This figure is based on available data for pipe breaks of 6 inches or greater, and is therefore quite conservative.

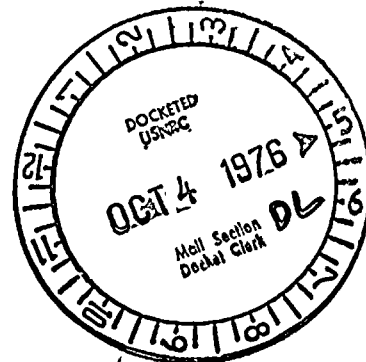
Our July 23, 1976 letter to the Commission committed to removal of the solid catwalk during the scheduled Spring, 1977 refueling outage. Since this outage is only about six months away, the very low probability stated above would be reduced even further, by about a factor of two. Therefore, Nine Mile Point Unit 1 can be operated, without any undue hazard to the public health and safety, until the scheduled outage.

Very truly yours,

NIAGARA MOHAWK POWER CORPORATION


GERALD K. RHODE

Vice President - Engineering



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THE UNIVERSITY OF CHICAGO

DEPARTMENT OF CHEMISTRY

PHYSICAL CHEMISTRY

LABORATORY

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