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 MANGAN, C.V. Niagara Mohawk Power Corp.
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 VASSALLO, D.B. Operating Reactors Branch 2

SUBJECT: Provides addl info & clarifies 840502 ltr re mod for reducing loads resulting from subsequent relief valve actuations. Based on addl analyses, previously stated position not to install low setpoint logic sys remains unchanged.

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May 25, 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:

By letter dated December 3, 1982, Niagara Mohawk presented possible modifications for reducing the loads resulting from subsequent relief valve actuations. As indicated in our letter of November 10, 1983, a Low-Low Set Point Logic System was the option selected.

Subsequently, our May 2, 1984 letter stated that Niagara Mohawk will not install a Low-Low Set Point Logic System at Nine Mile Point Unit 1. Recent analyses, based on structural modifications to the torus, computer program revisions by General Electric and the use of equivalent manual actions, concluded that a Low-Low Set Point Logic System was not required. As requested by your staff, this letter provides additional information and clarification of our May 2, 1984 letter.

Additional analyses have been performed using the original version of the computer program. This program is used to determine the thrust loads on the relief valve discharge lines. The minimum time between relief valve actuations is six (6) seconds. This time period is sufficient to allow for the initial high water reflood heights to clear. Therefore, the thrust loads produced by subsequent relief valve actuations with this decreased amount of water does not overstress the relief valve discharge line or the torus structure. Based on these additional analyses, our previously stated position not to install a Low-Low Set Point Logic System at Nine Mile Point Unit 1 remains unchanged.

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PDR

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REVISED

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY
57 SOUTH EAST ASIAN AVENUE
CHICAGO, ILLINOIS 60607

RECEIVED
MAY 15 1964

CHICAGO, ILLINOIS

TO THE DIRECTOR, UNIVERSITY OF CHICAGO
FROM THE DIRECTOR, UNIVERSITY OF CHICAGO

RE: [Illegible text]

[Illegible text]

May 25, 1984
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Also, our May 2, 1984 letter indicated that manual actions would provide for the coordination between the high pressure relief function and the Automatic Depressurization System function for the relief valves. It was indicated that a "substantial amount of time" would be available for the operators to respond to the situation. This response time is based on an analysis describing the process where decay heat boils-off water in the vessel following a scram. This analysis indicated 15-20 minutes is necessary to reach the reactor water level low-low-low setpoint and activate the Automatic Depressurization System logic.

Our May 2, 1984 letter stated, "Procedures will be modified such that if a low-low-low reactor water level condition is reached, a relief valve will be manually opened." The procedures will include provisions for the event where the Automatic Depressurization System timer is activated and a relief valve opens due to high pressure in the reactor vessel. The open valve will be maintained open until either the Automatic Depressurization System timer has timed-out or the logic has been reset. The above manual actions will be taken only following a small break loss-of-coolant accident inside the drywell with the Automatic Depressurization System timer activated.

Sincerely,

NIAGARA MOHAWK POWER CORPORATION

C. V. Mangán

C. V. Mangán
Vice President

Nuclear Engineering and Licensing

JTD/djm

1. The purpose of this document is to provide information regarding the activities of the [redacted] in the [redacted] area. This information is being provided to you for your information and is not to be disseminated outside of your organization.

2. The [redacted] has been identified as a [redacted] and is currently active in the [redacted] area. It is believed that the [redacted] is involved in [redacted] activities and is a potential threat to the [redacted] area.

3. [redacted]

4. [redacted]