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 MANGAN, C. V. Niagara Mohawk Power Corp.
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 Document Control Branch (Document Control Desk)

SUBJECT: Supplemental application for amend to License NPF-54,
 superceding 861210 change request for Tech Spec Surveillance
 4.6.2.1.c re suppression pool high temp alarm setpoints.
 Request reflects response to Humphrey concerns in FSAR.

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March 27, 1987
(NMP2L 1010)

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D.C. 20555

Re: Nine Mile Point Unit 2
Docket No. 50-410

Gentlemen:

Niagara Mohawk Power Corporation, in a letter dated December 10, 1986, requested a change to Technical Specification Surveillance 4.6.2.1.c. Based on conversations with members of the Nuclear Regulatory Commission staff on March 16, 1987, Niagara Mohawk is superceding that change request via this submittal. The revised change, as well as justification, is attached. Niagara Mohawk is requesting that the attached change be incorporated into the full power license when it is issued. This Technical Specification change reflects our response to the Humphrey Concerns found in the Final Safety Analysis Report and is an operational enhancement.

Sincerely,

NIAGARA MOHAWK POWER CORPORATION

C. V. Mangan

C. V. Mangan
Senior Vice President

CVM/TDF:meg
Attachment
(2857G)

xc: Regional Administrator, Region I
Ms. E. G. Adensam, Project Director
Mr. W. A. Cook, Resident Inspector
Project File (2)

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UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

In the Matter of]
Niagara Mohawk Power Corporation]
(Nine Mile Point Unit 2)]

Docket No. 50-410

AFFIDAVIT

C. V. Mangan, being duly sworn, states that he is Senior Vice President of Niagara Mohawk Power Corporation; that he is authorized on the part of said Corporation to sign and file with the Nuclear Regulatory Commission the documents attached hereto; and that all such documents are true and correct to the best of his knowledge, information and belief.

C. Mangan

Subscribed and sworn to before me, a Notary Public in and for the State of New York and County of Onondaga, this 27 day of March, 1987.

Mary Frateschi

Notary Public in and for
Onondaga County, New York

My Commission expires: . . .

MARY FRATESCHI
Notary Public in the State of New York
Qualified in Onondaga County No. 4797
My Commission Expires March 30, 1988



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Subject: Justification for change to Technical Specification 4.6.2.1.c in the area of suppression pool high temperature alarm setpoints.

The requested change is enclosed. This change is required in order to make the Technical Specifications, 4.6.2.1.c, consistent with the Final Safety Analysis Report, Question and Response Volume 3, Humphrey Concerns, Section 9.3, Page HC-16. The Final Safety Analysis Report on Page HC-16 response states:

"The Unit 2 pool temperature transient analysis has been conducted in accordance with Draft NUREG 0783, as described in Appendix 6A. The initial conditions were set at licensing values as required by the NUREG."

Appendix 6A, Tables 6A.10-3 and 6A.10-4, state the assumption of a manual scram at a suppression pool temperature of 110°F. NUREG 0783, Section 5.7.2.1, Page 23, states:

"Assume that manual scram can be accomplished when the suppression pool temperature reaches 110°F as indicated in the Technical Specifications. To justify this assumption, the applicant or licensee shall meet the following requirement:"

"Provide alarms/displays to alert the operator about the suppression pool temperature. Set the alarm at TS1 and TS3.*"

"If the applicant or licensee does not meet all of these requirements, manual scram shall be assumed to be accomplished 10 minutes after the pool temperature reaches 110°F."

"*TS3 is the Technical Specification pool temperature limit for reactor scram."

Since the Final Safety Analysis Report assumes a manual scram at a suppression pool temperature of 110°F, there should be two different setpoint alarms for suppression pool water temperature based on NUREG 0783, Pages 22 and 23 single asterisk footnotes. One alarm should be set at the temperature limit for reactor scram, which is $\leq 110^\circ\text{F}$, based on action statement 2.b on Technical Specification Page 3/4 6-16 which is consistent with NUREG 0783, Page 23, single asterisk footnote. A second alarm should be set at the maximum Technical Specification pool temperature limit for continued power operation, which is $\leq 90^\circ\text{F}$, based on Technical Specification limiting condition for operation 3.6.2.1.a.2. This is consistent with NUREG 0783 Page 22, single asterisk footnote.

In order to make the Technical Specification suppression pool high temperature alarm setpoint (4.6.2.1.c, Page 3/4 6-17) consistent with the assumptions made in performing the transient analysis described in NUREG 0783, Pages 22 and 23, the attached Technical Specification change is provided.



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