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AUTH. NAME AUTHOR AFFILIATION
MANGAN, C. V. Niagara Mohawk Power Corp.
RECIP. NAME RECIPIENT AFFILIATION
ADENSAM, E. G. BWR Project Directorate 3

SUBJECT: Forwards addl info re compliance to Reg Guide 1.97, per 860213 & 21 telcons. Info shold close confirmatory Item 10. Devel opments in nuclear industry re neutron flux monitoring instrumentation will continue.

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

March 3, 1986
(NMP2L 0644)

Ms. Elinor G. Adensam, Director
BWR Project Directorate No. 3
U.S. Nuclear Regulatory Commission
7920 Norfolk Avenue
Washington, DC 20555

Dear Ms. Adensam:

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

Attached is additional information concerning the Nine Mile Point Unit 2 compliance to Regulatory Guide 1.97. This response is in addition to the response provided on January 20, 1986.

This material was discussed in telephone conversations with your staff on February 13, 1986 and February 21, 1986. Niagara Mohawk expects that this material provides the necessary information to close Confirmatory Item 10.

Very truly yours,

C. V. Mangan
Senior Vice President

TL:ja
1361G
Attachment

xc: R. A. Gramm, NRC Resident Inspector
Project File (2)

B001
1/1

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

In the Matter of	)	
Niagara Mohawk Power Corporation	)	Docket No. 50-410
(Nine Mile Point Unit 2)	)	

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 V Mangan

Subscribed and sworn to before me, a Notary Public in and for the State of New York and County of Onondaga, this 3rd day of March, 1986.

Janis M Macro
Notary Public in and for
Onondaga County, New York

My Commission expires:
JANIS M. MACRO
Notary Public in the State of New York
Qualified in Onondaga County No. 4784555
My Commission Expires March 30, 1987

Attachment

2. Neutron flux - The applicant should provide Class 1E power sources for this instrumentation; the applicant should show that the source and intermediate ranges have sufficient overlap.

Response

In addition to the information provided in our January 20, 1986 letter, Niagara Mohawk will continue to follow and evaluate developments in the nuclear industry concerning neutron flux monitoring instrumentation. Prior to the conclusion of the first refueling outage, Niagara Mohawk will update and identify to the Nuclear Regulatory Commission the status of the neutron flux monitoring instrumentation issue for Nine Mile Point Unit 2.

4. Coolant level in reactor - The applicant should identify the remainder of this instrumentation in accordance with Section 6.2 of NUREG-0737, Supplement No. 1, identify any deviations, and justify those deviations identified.

Response

As stated in our January 20, 1986 letter, conformance to Regulatory Guide 1.97, Revision 3 is accomplished by the use of two transmitters per division, one fuel zone and one wide range. As noted in Section 3.3.3 of your November 15, 1985 letter, the wide range transmitters were omitted from Table 421.36-1 and will be added in the next Final Safety Analysis Report amendment.

The wide range transmitters (2ISC*LT9C and D) are calibrated to monitor the 375.70 in. level, which is inside the fuel zone transmitter range, to the 585.70 in. level which is 62.3 in. below the centerline of the main steam lines at 648 in. It should be noted that all safety trips from reactor level occur within these level ranges.

This range meets the intent of the regulatory guide which is to restore and maintain reactor pressure vessel water level to ensure adequate core cooling.

Water level indication is available in the control room to the operator from one transmitter (2ISC*LT105) covering the 525.70 to 925.70 in. level which is well above the main steam lines. A second transmitter (2ISC*PDT110) covering the 525.70 to 705.70 in. level is also available to the control room operator on a strip chart recorder. However, neither of these transmitters (2ISC*PDT110 and LT105) fully meet the qualification requirements of Regulatory Guide 1.97.