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 FACIL: 50-410 Nine Mile Point Nuclear Station, Unit 2, Niagara Moha 05000410  
 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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THE UNITED STATES OF AMERICA  
DEPARTMENT OF THE ARMY  
OFFICE OF THE CHIEF OF STAFF  
WASHINGTON, D. C.

MEMORANDUM FOR THE CHIEF OF STAFF  
SUBJECT: [Illegible]

1. [Illegible]

2. [Illegible]

3. [Illegible]

4. [Illegible]

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.

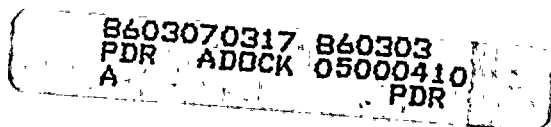
Very truly yours,

*C. V. Mangan*

C. V. Mangan  
Senior Vice President

TL:ja  
1361G  
Attachment

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



Boo!  
11



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1. The first part of the document is a list of names and addresses. The names are: John Doe, Jane Smith, and Bob Johnson. The addresses are: 123 Main St, 456 Elm St, and 789 Oak St.

2. The second part of the document is a list of names and addresses. The names are: Alice Brown, Charlie White, and David Green. The addresses are: 101 Main St, 202 Elm St, and 303 Oak St.

3. The third part of the document is a list of names and addresses. The names are: Emily Black, Frank Gray, and Grace Blue. The addresses are: 404 Main St, 505 Elm St, and 606 Oak St.

4. The fourth part of the document is a list of names and addresses. The names are: Henry Red, Irene Yellow, and Jack Purple. The addresses are: 707 Main St, 808 Elm St, and 909 Oak St.

5. The fifth part of the document is a list of names and addresses. The names are: Karen Orange, Larry Pink, and Mary Silver. The addresses are: 1010 Main St, 1111 Elm St, and 1212 Oak St.

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. 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.

[illegible]

1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

[illegible][illegible]

YOUNG, D. H. 1963. The effects of temperature and salinity on the growth of the bay anchovy, *Anchoa hepsetus*, in the Chesapeake Bay. *U.S. Fish. Bull.* 61: 1-14.

1. 1990年12月，在《中国环境报》上刊登了“中国环境报”的“中国环境报”广告。

[illegible]