

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8611130188 DOC. DATE: 86/11/11 NOTARIZED: YES DOCKET #
 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 affidavit & addl info re MSIV removal & installation & schedule of activities. Actuator mods will be made concurrently w/fuel load operations. Detailed MSIV mod schedule also encl.

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1. Introduction

2. Conclusion

3. Appendix A

4. Appendix B

5. Appendix C

6. Appendix D

7. Appendix E

8. Appendix F

9. Appendix G

10. Appendix H

11. Appendix I

12. Appendix J

13. Appendix K

14. Appendix L

15. Appendix M

16. Appendix N

November 11, 1986
(NMP2L 0936)

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

In the course of our work on the Main Steam Isolation Valve actuators, we have determined that we can proceed much more efficiently, with no effect on the safety of the plant, if we make the required mechanical and electrical modification to the actuator concurrently with our fuel load operation. Earlier submittals have stated that one main steam isolation valve in each line will be maintained closed until core alteration is complete. The modification to the actuator can be accomplished without altering that commitment.

In discussions with the Staff on this matter, we were requested to provide additional information to cover the following points:

- 1) A description of the actuator removal and reinstallation process, in sufficient detail to ensure that the valve ball would not rotate in the process.
- 2) The amount of torque required to initiate rotation of the valve ball in the absence of the actuator.
- 3) A schedule for the required activities, from the removal of the actuator to the completion of the leak test following the reinsertion of the actuator.

This information is attached.

Very truly yours,


C. V. Mangan
Senior Vice President

8611130188 861111
PDR ADDCK 05000410
P PDR

RAC/pns
2221G

xc: W. A. Cook, NRC Resident Inspector
Project File (2)

Boal
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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.

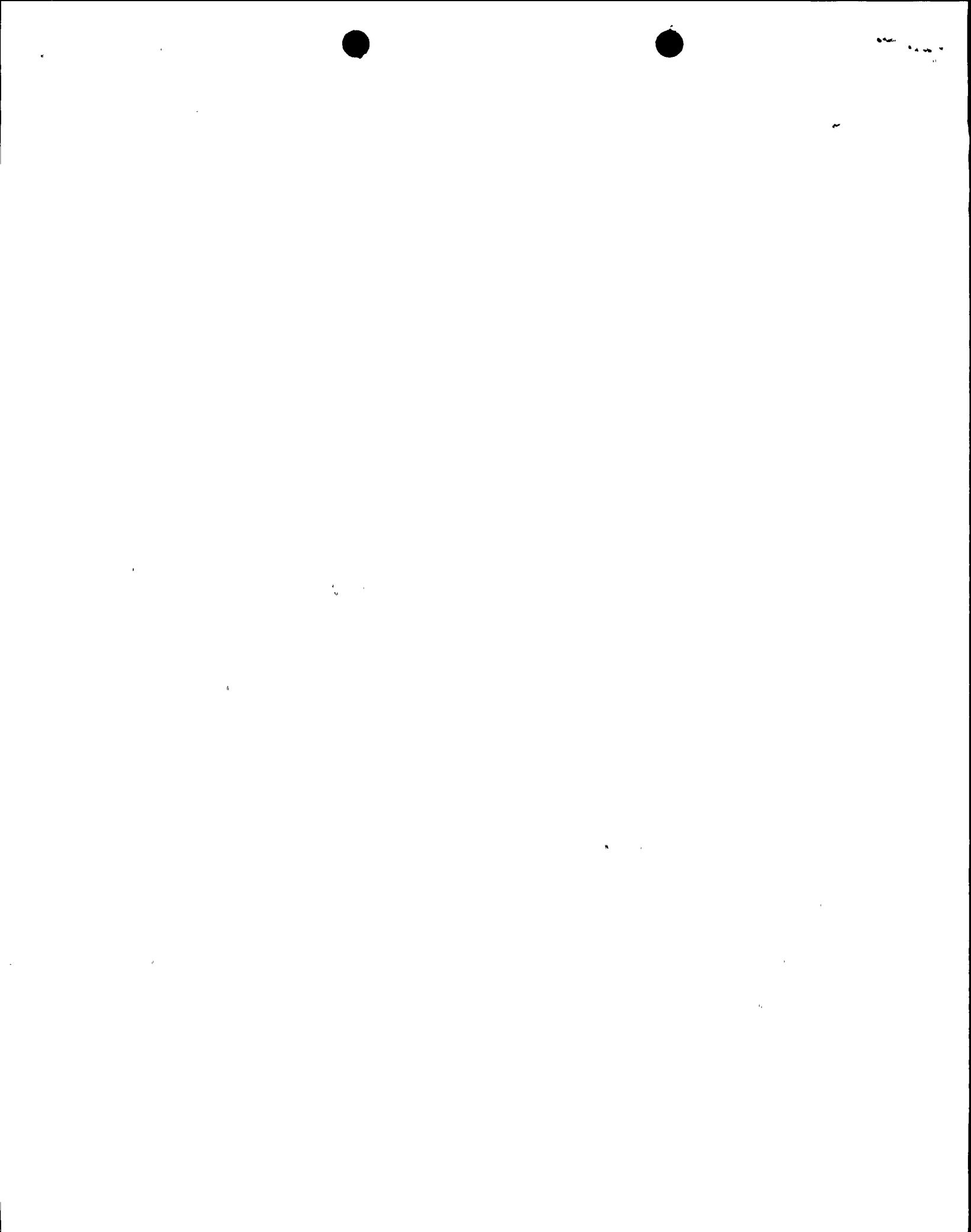
C. V. Mangan

Subscribed and sworn to before me, a Notary Public in and for the State of New York and County of Onondaga, this 10th day of November, 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

Question 1) A description of the actuator removal and reinstallation process, in sufficient detail to ensure that the valve ball would not rotate in the process.

Response 1) The procedure for removing the MSIV actuator from the valve and re-installing the actuator is described below:

- 1) Transfer current open and close location marks from the valve stem to the actuator clevis shaft.
- 2) Remove the electrical terminations from the actuator.
- 3) Lift actuator from valve until clevis shaft clears valve stem and set actuator on dunnage put between valve and actuator. This dunnage is placed in such a fashion that stroking the actuator will not move the valve ball.
- 4) Temporarily connect the electrical terminations to the actuator.
- 5) Stroke the actuator to a mid-position and place braces on the spring cans to facilitate the modifications to the actuator.
- 6) Disconnect the electrical termination on actuator to allow electrical modification to be performed.
- 7) Perform electrical and mechanical modifications.
- 8) At completion of modifications, temporarily terminate actuator and operate actuator to remove spring can braces. When braces are removed, operate actuator to the closed position.
- 9) Disconnect the electrical termination on actuator.
- 10) Re-install the actuator using match marks from step #1.

Question 2) The amount of torque required to initiate rotation of the valve ball in the absence of the actuator.

Response 2) The torque required to initiate rotation of the MSIV ball from the fully closed position is approximately 100,000 - 150,000 in-lb. This value was obtained from the MSIV Topical report submitted to the NRC by Gulf & Western. Based on assumptions which would provide the lowest value of torque, we believe the value could not be less than approximately 50,000 in-lb.

Question 3) A schedule for the required activities from the removal of the actuator to the completion of the leak test following the reinsertion of the actuator.

Response 3) See the attached schedule information.

THE
NATIONAL
BUREAU OF
INVESTIGATION
UNITED STATES DEPARTMENT OF JUSTICE

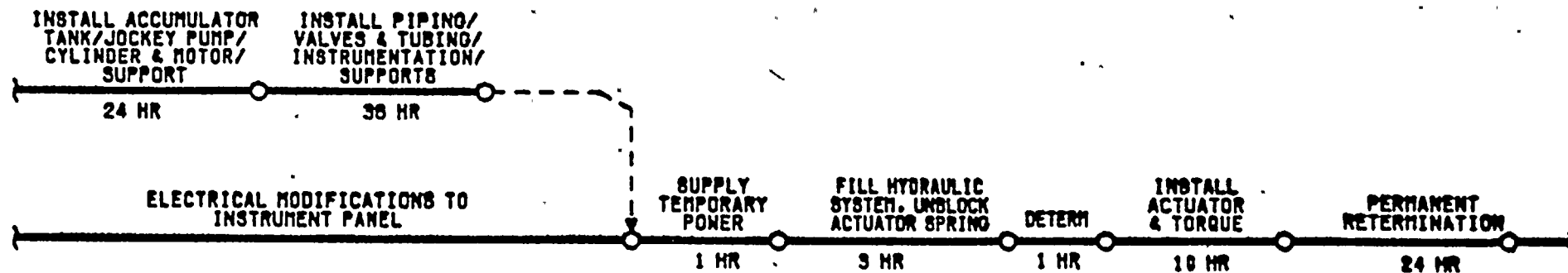
DETAILED MSIV MODIFICATION SCHEDULE



CONTINUED BELOW

ELECTRICAL MODIFICATIONS TO INSTRUMENT PANEL

9 DAYS



CONTINUED BELOW

TESTING/STROKING
& TYPE "C" TESTING

2 DAYS

**NINE MILE POINT UNIT 2
MSIV MODIFICATIONS
NIAGARA MOHAWK POWER CORP.**

