



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

September 2, 1980

Office of Inspection and Enforcement
Region I
Attn: Mr. Boyce Grier
631 Park Avenue
King of Prussia, PA 19406

Re: Nine Mile Point Unit 1
Docket No. 50-220
DPR-63

Dear Mr. Grier:

In our letter dated August 15, 1980 responding to Item B.1 of Supplement 1 to I.E. Bulletin 80-17, Niagara Mohawk informed your office that equipment to continuously monitor water level in the scram discharge volume would not be installed. Since that time we have re-evaluated the need for continuous monitoring equipment and have elected to install equipment to perform that function. Installation is expected to be complete by December 1, 1980. Daily surveillance of the scram discharge volume by Ultrasonic Transducer monitoring will continue during the interim.

Item B.2 of the aforementioned Bulletin requested that a study of potential designs for improving the scram discharge system be performed. The attachment to this letter addresses that item.

Very truly yours,

NIAGARA MOHAWK POWER CORPORATION

T. E. Lemppes

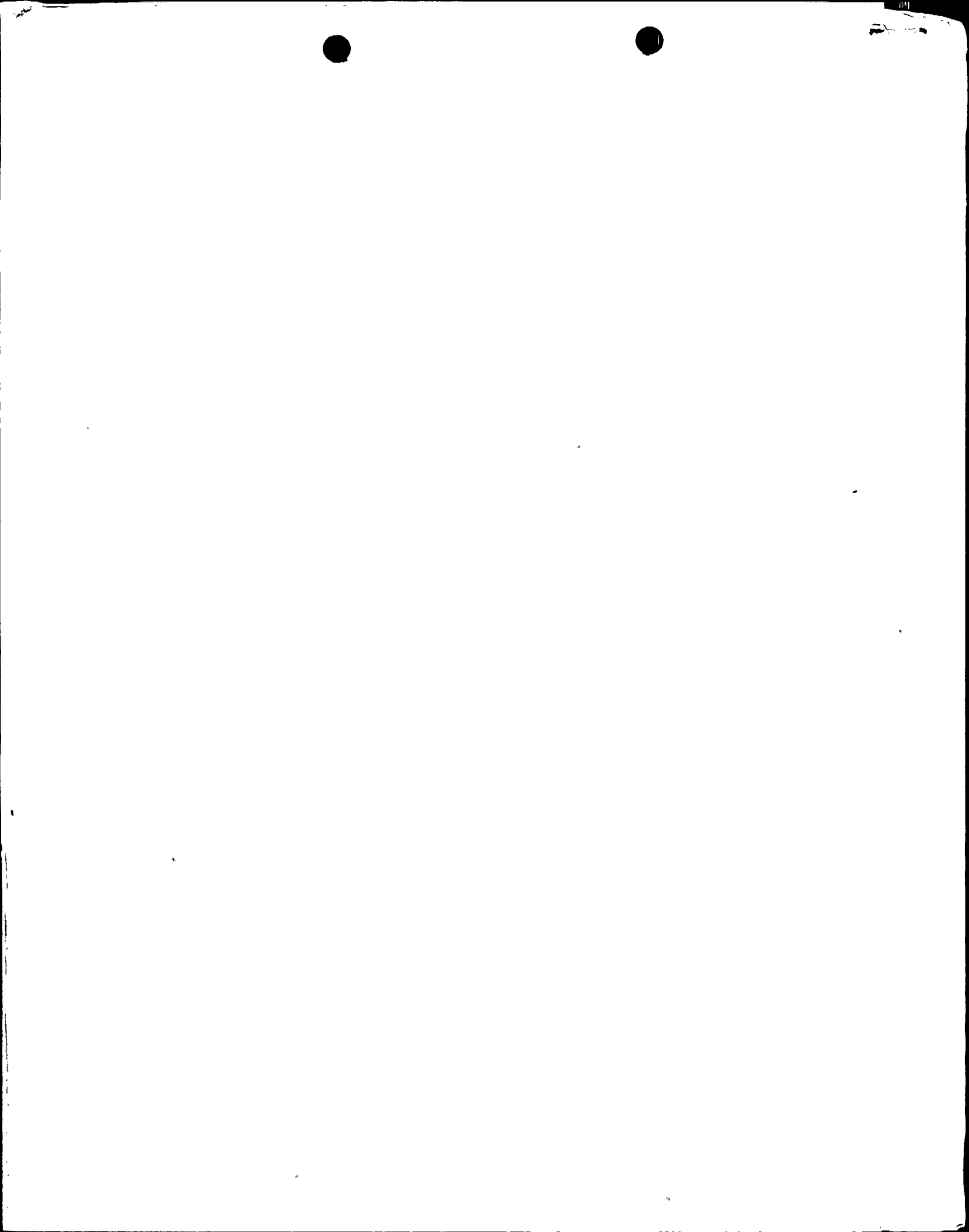
Vice President Nuclear Generation

BDW:ja

cc: NRC Office of Inspection & Enforcement
Division of Reactor Operations Inspection
Washington, D. C. 20555

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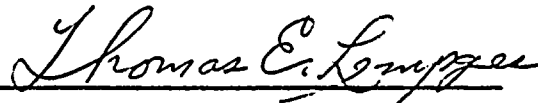
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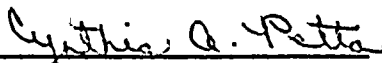
THOMAS E. LEMPGES, being duly sworn, says:

I am Vice President, Nuclear Generation of Niagara Mohawk Power Corporation. I have read the foregoing letter and the facts contained in the letter and attachment are true to the best of my knowledge, information and belief.



Thomas E. Lempges

Sworn to before me this
2nd day of September,
1980.



NOTARY PUBLIC

CYNTHIA A. PETTA
Notary Public in the State of New York
Qualified in Onondaga Co. No. 4682225
My Commission Expires March 30, 1982

Item B.2:

Perform a study of potential designs for improving the venting system for the scram discharge volumes and submit a description to NRC by September 1, 1980. Improvements such as providing a redundant, independent vent for each significant volume in the system or locally installing vacuum breakers close to each such volume should be considered (some plants already include a design which vents locally to atmosphere). Include an estimate of the time that would be required to accomplish these modifications in your report to be submitted to the NRC Regional Office. We have been told that meetings have already been scheduled by GE to discuss their proposals in this area with licensees.

Response:

Niagara Mohawk has reviewed the design of the scram discharge volume and related vent and drain lines. Modifications have been proposed for each of these systems which will improve the reliability of the entire scram discharge system. A description of the proposed modifications is provided herein. It is anticipated that this modification will be completed by May 1981.

Currently, the piping in the scram discharge system (any piping between the vent valve and drain valve) has a capacity of approximately 240 gallons, or 1.85 gallons per control rod drive. The scram discharge volume will be modified to increase this capacity to at least 3.34 gallons per drive. The increase in volume will be accomplished by replacing the 2 inch piping which connects the header system to the instrument volume with 8 inch piping. In addition, the 1 inch piping between the vent valve and reducers on the header pipes will be replaced with 2 inch piping and approximately 42 feet of 4 inch piping will be added to the header system.

Also, modifications will be made to the vent and drain lines which service the scram discharge volume. These modifications will consist of utilizing dedicated vent and drain lines routed to a holding tank used exclusively for water drained from the scram discharge volume. The following provides a description of these modifications:

1. The 1 inch vent line will be replaced with a 2 inch line running directly to the holding tank.
2. The instrument air operated vent valve will be replaced with 2 motor operated valves installed in series.
 - a) These valves will be actuated by a signal from the reactor protection system.
 - b) Valve position indicator capabilities will be provided.
 - c) Handwheels will be provided to facilitate manual operation.
3. A valve similar to those described in 2a, b, and c above will be installed in the drain line in series with the present drain valve.
4. Neither the vent line nor drain line will have submerged pipe exits.



5. A holding tank will be installed with it's sole function being to hold water drained from the scram discharge volume.
 - a) The tank will be vented directly to the reactor building ventilation system.
 - b) Instrumentation will be provided to continuously monitor water level in the tank. A HI-LEVEL alarm in the control room, continuous chart recording capability, and a local level indicator will be incorporated with this instrumentation.
 - c) Overflow capability and a manually operated pump will be provided with the tank, both of which will drain to the Reactor Building Equipment drain tank. A check valve will be installed in the discharge line to prevent backflow.

Following drainage of the scram discharge volume, the water level in the tank will be checked to ensure that all the water has drained from the system. This action, in conjunction with instrumentation to continuously monitor water levels in the scram discharge volume, will ensure operability of this system.



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