

CENTRAL FILES

NIAGARA MOHAWK POWER CORPORATION



300 ERIE BOULEVARD WEST
SYRACUSE, N.Y. 13202

THOMAS E. LEMPGES
VICE PRESIDENT—NUCLEAR GENERATION

July 21, 1980

Office of Inspection and Enforcement
Region I
Attention: Mr. Boyce H. Grier, Director
U.S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, PA 19406

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

Dear Mr. Grier:

Your July 3, 1980 Inspection and Enforcement Bulletin 80-17 requested information regarding the control rod scram system at Nine Mile Point Unit 1. The attachments to this letter address Items 2 and 3 of that Bulletin. The remaining outstanding items of the Bulletin will be addressed in accordance with the schedules outlined in the Bulletin.

The information contained in the attachment to this letter demonstrates that continued operation of Nine Mile Point Unit 1 does not present an undue safety hazard to the public.

Very truly yours
Thomas E. Lempges
NIAGARA MOHAWK POWER CORPORATION

TEL/bam
Attachment

cc: NRC Office of Inspection and Enforcement
Division of Reactor Operations Inspection
Washington, DC 20555

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STATE OF NEW YORK)
)
COUNTY OF ONONDAGA)

SS:

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 fact contained in the letter and attachment are true to the best of my knowledge, information and belief.

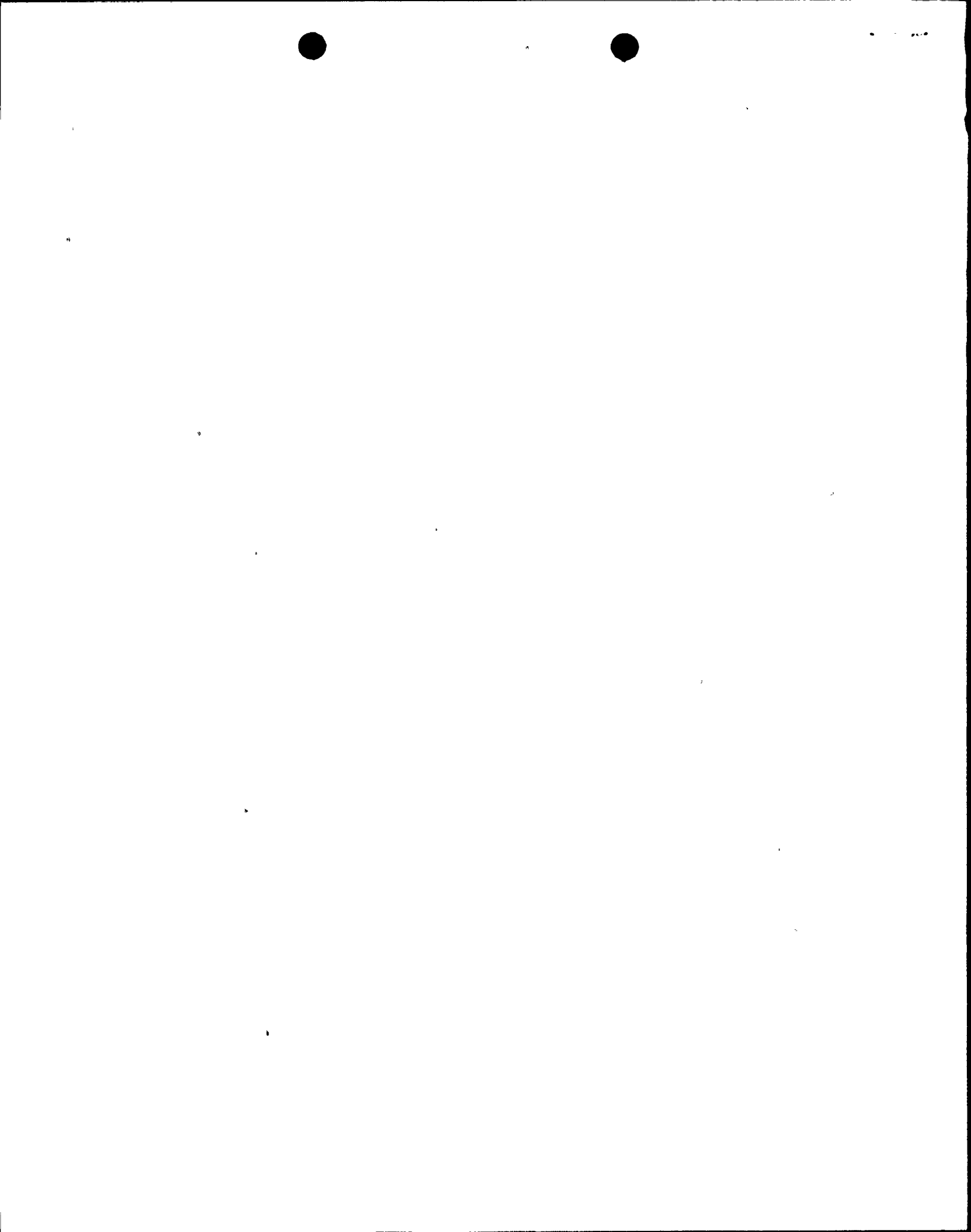
Thomas E. Lempges
Thomas E. Lempges

Sworn to before me on this

21st day of July, 1980

Bonnie E. Phillips
Notary Public

BONNIE E. PHILLIPS
Notary Public in the State of New York
Qualified in Onondaga Co. No. 34-6357200
My Commission Expires Mar. 30, 1982



Item 2

Within the next 20 days, perform one manual and one automatic scram in that order at normal operating temperature and pressure and with more than 50 percent of the rods fully withdrawn, and obtain the information in items 2(a) through 2(k) for each scram.

Response

On July 15, 1980, a manual scram was performed with 65 of the 129 control rods fully withdrawn. The reactor power level was 197 MWT with normal operating temperature and pressure. The data required by items 2(a) through 2(j) is given in Attachment 1. During this scram, one control rod (I.D. #34-43) failed to move from the fully withdrawn position upon receipt of the scram signal due to a failure of one of its scram solenoid valves to operate properly. This event was reported to the Region I Office on July 15, 1980, per your July 9 letter. It is also being reported in accordance with Technical Specification Reporting Requirements as LER-80-13. Since the failure of this control rod to scram was not due to problems with the SDV Vent and Drain System, it did not preclude successful completion of the test.

On July 17, 1980, an automatic scram was performed with 65 of the 129 controls rods fully withdrawn. A different control rod withdrawal sequence was used so that these 65 control rods were not the same as those in the manual scram test. The reactor power level was 165 MWT with normal operating temperature and pressure. All control rods inserted to the "full in" position in this test. The data required by items 2(a) through 2(j) is given in Attachment 1. Comparisons 2(k) between these two tests and previous available data show no anomalies.

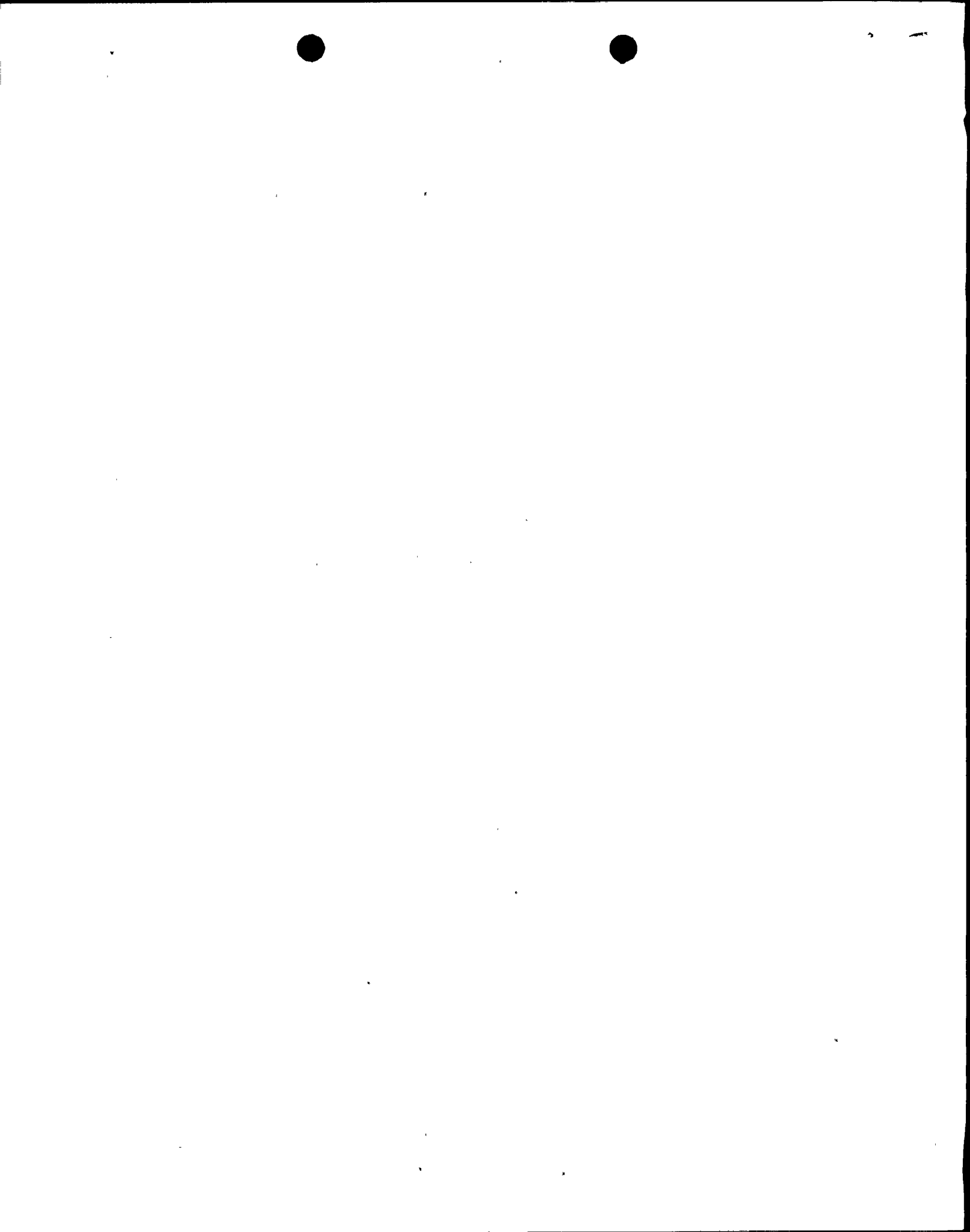
Item 3

At the conclusion of the scram tests and all other scrams, verify that all vent lines on the SDV are functional. Verify that there is no significant amount of water in the SDV and associated piping.

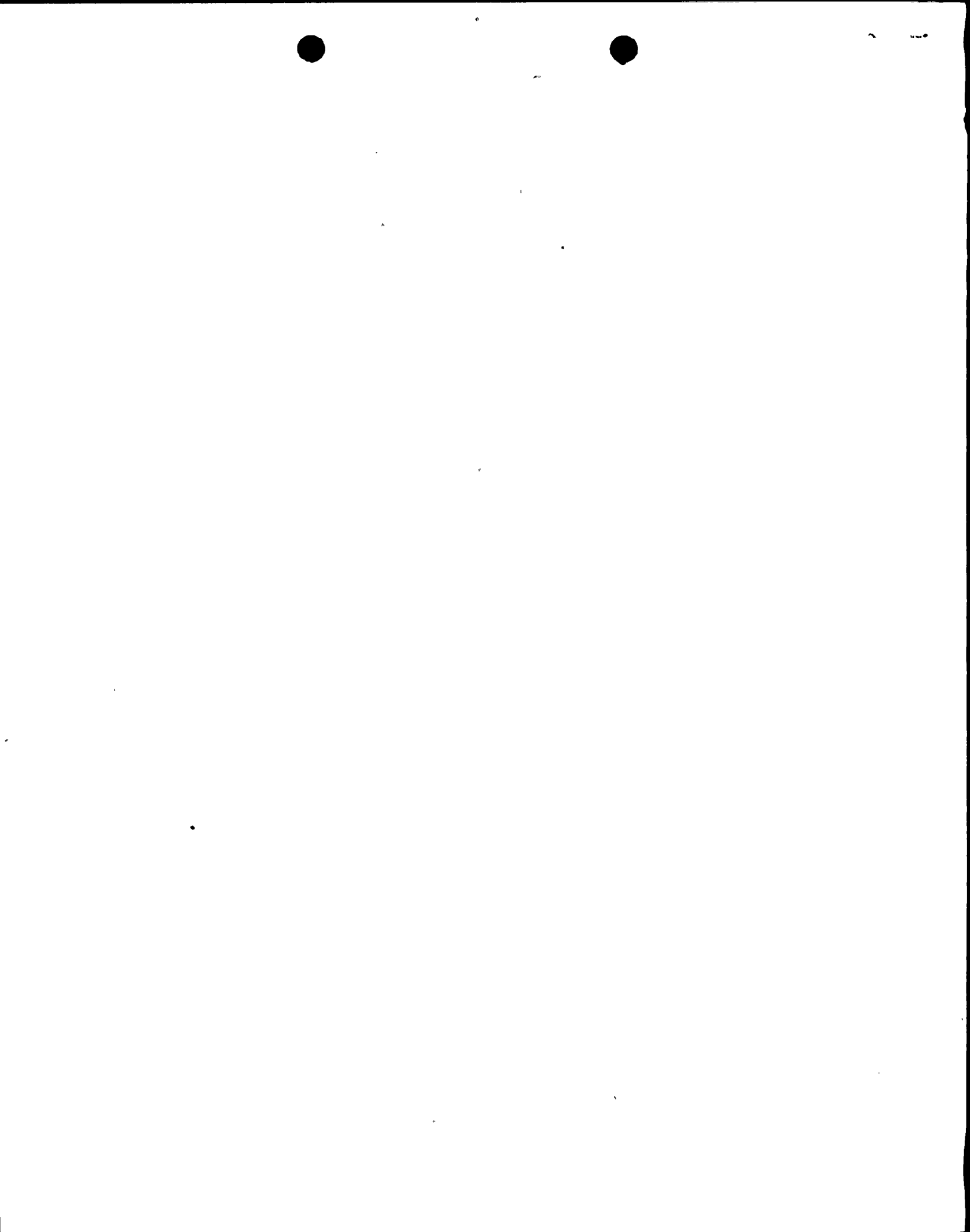
Response

At the conclusion of both scram tests, it was verified that there was no significant amount of water in the SDV and associated piping by performing NI-ST-W16, Ultrasonic Examination for Water in SDV piping. Since no water was present in the SDV, this also verified the vent line on the SDV were functional.

This procedure is an operations surveillance procedure which is performed daily during operation to verify that there is no significant amount of water



in the SDV and associated piping. The requirement to perform this procedure will be added to the appropriate checklist to insure that it is also performed after all scrams.



ATTACHMENT 1

<u>DESCRIPTION</u>	<u>MANUAL SCRAM</u>	<u>AUTO SCRAM</u>
a) All rod insert times and as many individual rod scram times as practicable. Thirty individual rod scram times were measured in each test. The time listed is the average time for 90% insertion.	ARI Time = 4.5 secs. Avg. 90% = 2.96 secs.	ARI Time = 6.50 Avg. 90% = 3.11 secs.
b) Voltage at the scram solenoid valve buses to verify that these solenoids are de-energized upon receipt of scram signal.	Voltage decreased to 0 volts upon receipt of scram signals.	
c) Verify that scram valve air is relieved through the backup valves and that the backup valves are fully open and remain open during the presence of a scram signal.	Discharge of air through backup scram valves was felt by hand during scram. Voltage remained at 0 volts indicating valves were fully open during presence of scram signal.	
d) Measure fill time of the instrument volume from scram initiation to closure of the scram instrument volume high level alarm switch, to closure of the rod withdraw block switch on the instrument volume and to the closure of the scram instrument volume reactor scram switch.	High Alarm 13.4 secs. Rod Block 19.1 secs. Scram 26.2 secs.	12.5 secs. 19.0 secs. 23.8 secs.
e) Measure vent and drain valves opening and closing times utilizing the valve stem mounted switches. This measurement may be made independent of the scrams.	Drain Close 132 secs. Vent Close 136 secs. Measured independently of scrams.	Drain open 1 sec. Vent open 1 sec.
f) Measure the delay time from scram initiation to closure of the SDV vent and drain valves utilizing the stem mounted position switches.	Drain Close 3.2 secs. Vent Close 3.6 secs.	3.4 secs. 3.8 secs.
g) Sample water from the instrument volume discharge after each scram for particulates.	Particulates = 29ppm	27.8 ppm
h) Measure the time to drain the SDV down to a repeatable reference level.	Drain time = 39.7 sec.	34.3 secs.
i) Monitor the SDV and associated piping for residual water.	UT Procedure verified no residual water present in SDV.	
j) Verify that the ten (10) second delay on scram reset is functioning properly to prevent resets of momentary scram signals.	Delay time = 35 secs.	36.7 secs.

