Control File HQ

NSP

NORTHERN STATES POWER COMPANY

MINNEAPOLIS, MINNESOTA 55401

August 1, 1980

Mr. James G. Keppler
Director, Region III
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, IL 60137

Dear Mr. Keppler:

MONTICELLO NUCLEAR GENERATING PLANT
Docket No. 50-263

The following is submitted in response to IE Bulletin No. 80-17:

Item 2, General

Manual and automatic scram tests were performed at normal operating temperature and pressure and with more than 50 percent of the rods fully withdrawn on Saturday, July 26, 1980. All rods fully inserted with normal scram times on both tests.

Item 2 a), b), d), h)

The measurements required by the Bulletin were made. Data is shown on the attached sheets. All measurements are within expected tolerances.

Item 2 c)

It was verified that the scram valve air was relieved through the backup valves and that the backup valves remained open during the presence of the scram signal.

Item 2 i)

The SDV and associated piping were monitored for residual water by ultrasonic testing conducted just prior to each scram and prior to plant restart. No water was detected.

Item 2 j)

The ten second delay on scram reset was verified to be functioning properly by having the operator cycle the reset switch following each scram and verifying that the reset relays did not actuate until the delay relays timed out.

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Item 2 k)

The results of the two sets of data were compared and found to be consistent and within expected tolerances.

Item 3

At the conclusion of the scram tests a regulated air supply and rotometer were used to supply and measure air flow throughout the vent lines as the valves were cycled closed and open. This test verified that the vent lines were functional. As required by this item and item 2 i), ultrasonic tests verified that no detectable water remained in the SDV and associated piping.

If additional information is required, please communicate directly with plant management.

Yours truly,

D. E. Gilberts
Vice President
Power Production

cc: Mr. G. Charnoff
NRC Office of Inspection and Enforcement
Division of Reactor Operations Inspection
Washington, D. C. 20555

Attachments

DEG:nk

UNITED STATES NUCLEAR REGULATORY COMMISSION

NORTHERN STATES POWER COMPANY

MONTICELLO NUCLEAR GENERATING PLANT

Docket No. 50-263

LETTER DATED AUGUST 1, 1980
RESPONDING TO NRC REQUEST
FOR INFORMATION IN IE BULLETIN NO. 80-17

Northern States Power Company, a Minnesota corporation, by this letter dated August 1, 1980, hereby submits information in response to NRC request for information concerning IE Bulletin No. 80-17.

This request contains no restricted or other defense information.

NORTHERN STATES POWER COMPANY

By: D E Gilberts
D. E. Gilberts
Vice President
Power Production

On this 1st day of August, 1980, before me a notary public in and for said County, personally appeared D. E. Gilberts, Vice President Power Production, and being first duly sworn acknowledged that he is authorized to execute this document on behalf of Northern States Power Company, that he knows the contents thereof and that to the best of his knowledge, information and belief, the statements made in it are true and that it is not interposed for delay.

Jeanne M Hacker

JEANNE M. HACKER
NOTARY PUBLIC - MINNESOTA
HENNEPIN COUNTY
My Commission Expires May 6, 1985

Scram Test Data for IEB 80-17

	Manual	Automatic
Scram Initiation	13:51:05	22:32:48
Reset of Scram (elapsed time after scram in minutes)	3:02:419	3:02:163
All rod insert time	3.70 sec.	4.17 sec.
Voltage of scram solenoid valve bus A upon receipt of scram	0 volts	0 volts
Voltage of scram solenoid valve bus B upon receipt of scram	0 volts	0 volts
Voltage of scram solenoid valve bus C upon receipt of scram	0 volts	0 volts
Voltage of scram solenoid valve bus D upon receipt of scram	0 volts	0 volts
Voltage of scram solenoid valve bus E upon receipt of scram	0 volts	0 volts
Voltage of scram solenoid valve bus F upon receipt of scram	0 volts	0 volts
Voltage of scram solenoid valve bus G upon receipt of scram	0 volts	0 volts
Voltage of scram solenoid valve bus H upon receipt of scram	0 volts	0 volts
Fill time of instrument volume to high level alarm switch	34.0 sec.	34.3 sec.
Fill time of instrument volume to rod withdraw block switch	53.8 sec.	54.4 sec.
Fill time of instrument volume to reactor scram switch	90.0 sec.	90.0 sec.
SDV vent valve (West Bank) closing time	9.3 sec.	9.8 sec.
SDV vent valve (East Bank) closing time	5.6 sec.	5.6 sec.
SDV drain valve closing time	7.0 sec.	8.9 sec.
SDV vent valve opening time (West Bank)	1.08 sec.*	
SDV vent valve opening time (East Bank)	1.48 sec.*	
SDV drain valve opening time	.88 sec.*	
Water sample from instrument vol. (Sus. Solids P. P. M.)	10.4	23.13
Time to drain SDV to a repeatable reference level (Instrument Volume Reactor Scram Switch)	36.0 sec.	36.1 sec.
Actual Header Draining Time as Determined by U. T.	18 min.	16 min.

* Measured independent of scram

SCRAM TEST FOR IEB 80-17

Control Rod Drive Scram Insertion Times

HCU NO.	MANUAL Position	MANUAL Time	AUTOMATIC Position	AUTOMATIC Time
02-23	48	2.87	48	2.82
02-27	48	2.83	0	0
02-31	48	2.65	48	2.62
06-15	48	2.83	0	0
06-19	48	2.89	48	2.96
06-23	12	.78	8	.57
06-27	48	3.34	48	3.28
06-31	12	.93	12	.90
06-35	48	2.94	48	2.81
06-39	48	2.72	0	0
10-11	48	2.72	0	0
10-15	48	2.80	48	2.77
10-19	0	0	0	0
10-23	48	3.03	48	3.01
10-27	0	0	0	0
10-31	48	2.99	48	2.91
10-35	0	0	0	0
10-39	48	*	48	*
10-43	48	2.95	0	0
14-07	48	3.17	0	0
14-11	48	3.26	48	3.10
14-15	12	.78	8	.57
14-19	48	3.17	48	3.05
14-23	8	.72	8	.71
14-27	48	3.34	48	3.14
14-31	8	.93	8	.66
14-35	48	3.14	48	3.12
14-39	13	.99	8	.72
14-43	48	3.00	48	2.96
14-47	48	3.29	0	0

SCRAM TEST FOR IEB 80-17

Control Rod Drive Scram Insertion Times

HCU NO.	MANUAL Position	MANUAL Time	AUTOMATIC Position	AUTOMATIC Time
18-07	48	2.80	48	2.78
18-11	0	0	0	0
18-15	48	2.87	48	2.86
18-19	0	0	0	0
18-23	48	2.97	48	2.91
18-27	0	0	0	0
18-31	48	3.70	48	3.60
18-35	0	0	0	0
18-39	48	3.65	48	3.34
18-43	0	0	0	0
18-47	48	2.84	48	2.78
22-03	48	3.20	48	3.85
22-07	12	.85	12	.84
22-11	48	2.91	48	2.88
22-15	8	.70	8	.68
22-17	48	3.02	48	3.08
22-23	8	.66	8	.66
22-27	48	3.05	48	3.01
22-31	8	3.10	8	.72
22-35	48	3.55	48	3.41
22-39	8	.67	8	.66
22-43	48	3.09	48	3.15
22-47	12	.82	8	.60
22-51	48	3.03	48	2.92
26-03	48	2.82	0	0
26-07	48	2.92	48	2.85
26-11	0	0	0	0
26-15	48	2.95	48	2.91
26-19	0	0	0	0
26-23	48	2.94	48	2.89
26-27	0	0	0	0
26-31	48	3.10	48	3.13
26-35	0	0	0	0

SCRAM TEST FOR IEB 80-17

Control Rod Drive Scram Insertion Times

HCU NO.	MANUAL Position	MANUAL Time	AUTOMATIC Position	AUTOMATIC Time
26-39	48	3.66	48	4.17
26-43	0	0	0	0
26-47	48	2.84	48	2.79
26-51	48	3.03	0	0
30-03	48	2.94	48	2.98
30-07	12	.87	8	.69
30-11	48	2.92	48	2.93
30-15	8	.65	8	.64
30-19	48	3.02	48	2.96
30-23	8	.63	8	.65
30-27	48	2.99	48	3.02
30-31	8	.62	8	.62
30-35	48	3.02	48	2.96
30-39	8	.64	8	.64
30-43	48	2.71	48	2.73
30-47	12	.90	12	.91
30-51	48	3.07	48	3.01
34-07	48	3.04	48	3.01
34-11	0	0	0	0
34-15	48	3.12	48	3.12
34-19	0	0	0	0
34-23	48	3.08	48	3.15
34-27	0	0	0	0
34-31	48	3.27	48	2.94
34-35	0	0	0	0
34-39	48	2.88	48	2.90
34-43	0	0	0	0
34-47	48	*	48	2.85
38-07	48	2.87	0	0
38-11	48	2.84	48	2.80
38-15	12	.90	8	.68
38-19	48	3.13	48	2.90
38-23	8	.60	8	.62
38-27	48	2.94	48	2.95

SCRAM TEST FOR IEB 80-17

Control Rod Drive Scram Insertion Times

HCU NO.	MANUAL Position	MANUAL Time	AUTOMATIC Position	AUTOMATIC Time
38-31	8	.68	8	.67
38-35	48	2.95	48	3.06
38-39	12	.79	8	.58
38-43	48	2.77	48	2.78
38-47	48	2.86	0	0
42-11	48	2.95	0	0
42-15	48	2.89	48	2.88
42-19	0	0	0	0
42-23	48	2.75	48	2.77
42-27	0	0	0	0
42-31	48	3.03	48	3.00
42-35	0	0	0	0
42-39	48	3.34	48	3.23
42-43	48	2.98	0	0
46-15	48	2.63	0	0
46-19	48	3.78	48	2.76
46-23	12	.92	48	3.04
46-27	48	2.67	48	2.89
40-31	12	.87	8	.67
46-35	48	2.80	48	2.74
46-59	48	2.77	0	0
50-23	48	2.89	48	2.93
50-27	48	2.76	0	0
50-31	48	2.78	48	2.85

*No time obtained.