

NIAGARA MOHAWK POWER CORPORATION
NINE MILE POINT NUCLEAR STATION UNIT #1

Narrative of Operating Experience

September 1978

The unit operated at 78.4% electrical capacity factor with an availability of 96.9% for the month.

The month began with unit derated to 90.5% core thermal power (CTP) due to operation with an isolated reactor recirculation loop. From September 1 through September 4, unit operated at 84% CTP with an electrical output of approximately 480 MWe. At 1325 on September 5, #15 Reactor recirc M-G set tripped when water from nearby core drilling leaked into the control cabinet. Control rods were inserted to maintain thermal limits. At 1640, #15 recirc pump was restarted and control rods were withdrawn to approximately 80% CTP and 460 MWe. On September 6, control rods were withdrawn to the original rod pattern prior to #15 recirc pump trip. Until September 9, unit was at approximately 84% CTP and 480 MWe.

On September 9, the load was reduced to 380 MWe to withdraw shallow control rods. Pre-conditioning from 390 MWe was initiated and station output of 533 MWe (88% CTP) was reached on September 11.

On September 13, unit was reduced to 220 MWe to repair steam leak on #13 feedwater pump flow control valve. Control rods were withdrawn on September 14, after leak was repaired until 410 MWe was reached. Pre-conditioning was initiated and station output of 554 MWe was reached on September 16.

Load was maintained until September 23, when unit was reduced to 450 MWe for control rod withdrawals. Pre-conditioning was initiated and station output of 548 MWe was reached on September 25.

Unit maintained load until 2105 on September 29, when load reduction for maintenance outage to replace #11 RRP cooler began. At 0141 on September 30, the unit was off the line. At 0251, the reactor scrammed due to upscale spikes in the IRM's. Cooldown of reactor continued until cold shutdown was achieved.

OPERATING DATA REPORT

DOCKET NO. 50-220
 DATE 10/4/78
 COMPLETED BY T.J. Perkins
 TELEPHONE (315) 343-2110
 Ext.1312

OPERATING STATUS

1. Unit Name: Nine Mile Point Unit #1
2. Reporting Period: 08/01/78 - 08/31/78
3. Licensed Thermal Power (MWt): 1850
4. Nameplate Rating (Gross MWe): 640
5. Design Electrical Rating (Net MWe): 620
6. Maximum Dependable Capacity (Gross MWe): 630
7. Maximum Dependable Capacity (Net MWe): 610
8. If Changes Occur in Capacity Ratings (Items Numbered 3 through 7 Since Last Report, Give Reasons:

Notes

9. Power Level To Which Restricted, If Any (Net MWe): 561
10. Reasons For Restrictions, If Any: SCRAM Reactivity Coast Down
512 MWe Rx recirc pump #11 out

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	_____	_____	_____
12. Number Of Hours Reactor Was Critical	_____	_____	_____
13. Reactor Reserve Shutdown Hours	_____	_____	_____
14. Hours Generator On-Line	_____	_____	_____
15. Unit Reserve Shutdown Hours	_____	_____	_____
16. Gross Thermal Energy Generated (MWH)	_____	_____	_____
17. Gross Electrical Energy Generated (MWH)	_____	_____	_____
18. Net Electrical Energy Generated (MWH)	_____	_____	_____
19. Unit Service Factor	_____	CORRECTION	_____
20. Unit Availability Factor	_____	_____	_____
21. Unit Capacity Factor (Using MDC Net)	_____	85.4	59.3
22. Unit Capacity Factor (Using DER Net)	_____	24.0	58.3
23. Unit Forced Outage Rate	_____	_____	_____
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):	_____		

25. If Shut Down At End Of Report Period, Estimated Date of Startup: _____
 26. Units In Test Status (Prior to Commercial Operation):
- | | Forecast | Achieved |
|----------------------|----------|----------|
| INITIAL CRITICALITY | _____ | _____ |
| INITIAL ELECTRICITY | _____ | _____ |
| COMMERCIAL OPERATION | _____ | _____ |



1 1 1 1
1 1 1 1

September 7, 1978

Director
Office of Management Information
and Program Control
United States Nuclear Regulatory Commission
Washington, D.C. 20555

RE: Docket No. 50-220
DPR-63

Gentlemen:

Submitted herewith is the Report of Operating Statistics and Shutdown Experience for August 1978 for the Nine Mile Point Nuclear Station Unit #1.

Also included is a Narrative Report of Operating Experience for the month.

Very truly yours,


R.R. Schneider
Vice President -
Electric Production

mtm

Attachments

xc: Director, Office of I&E (10 copies)
NRC Region I Office (1 copy)

782500260

A008
S/11

OPERATING DATA REPORT

DOCKET NO. 50-220
 DATE 9/7/78
 COMPLETED BY T.J. Perkins *lps*
 TELEPHONE 315-343-2110
 ext-1312

OPERATING STATUS

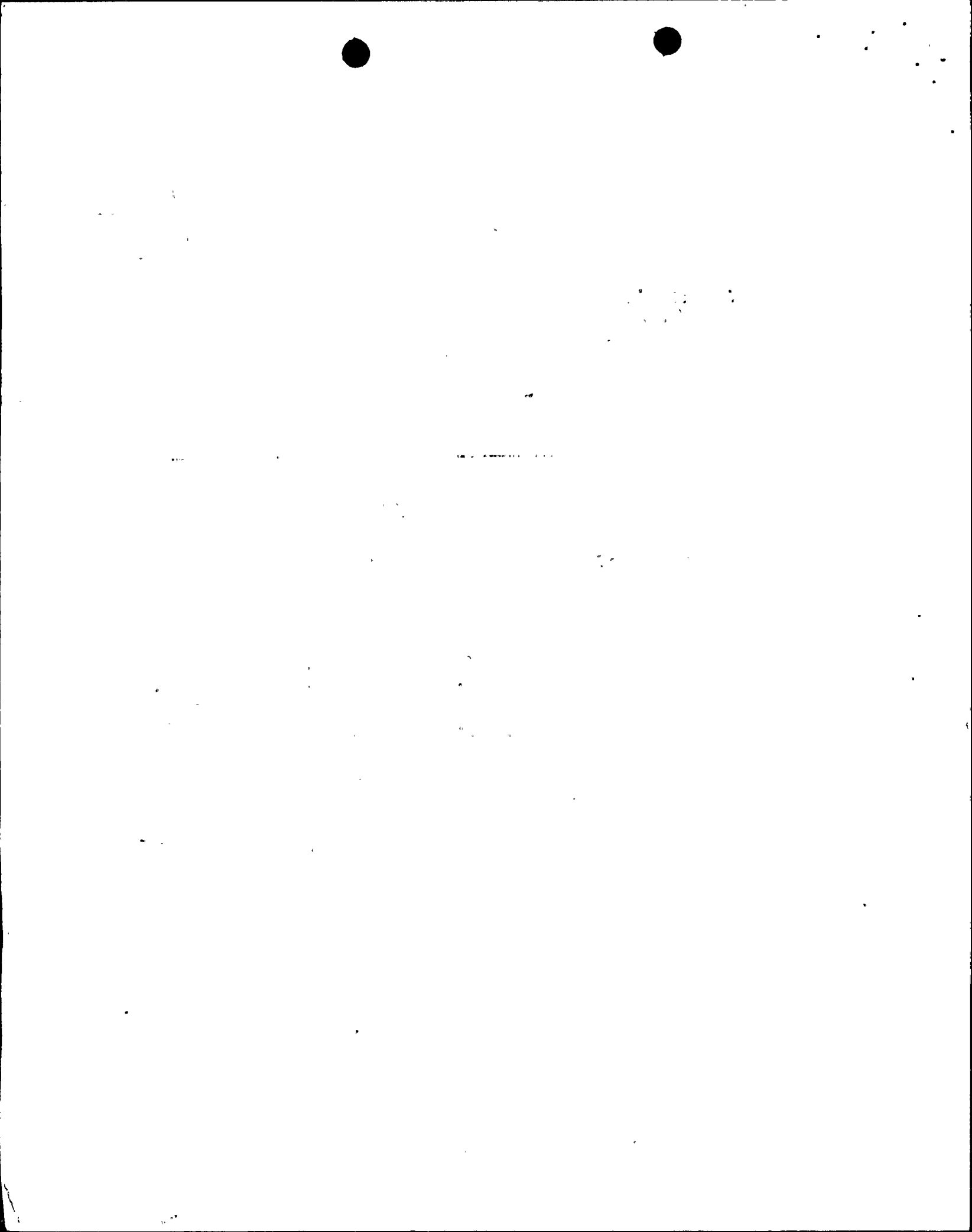
1. Unit Name: Nine Mile Point Unit #1
2. Reporting Period: 08/01/78 - 08/31/78
3. Licensed Thermal Power (MWt): 1850
4. Nameplate Rating (Gross MWe): 640
5. Design Electrical Rating (Net MWe): 620
6. Maximum Dependable Capacity (Gross MWe): 630
7. Maximum Dependable Capacity (Net MWe): 610
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:

Notes

9. Power Level To Which Restricted, If Any (Net MWe): 8/1 - 8/27 - 561 MWe
8/27 - 8/30 - 512 MWe
10. Reasons For Restrictions, If Any: 561 MWe - Scram Reactivity 512 MWe - Rx Recirc Pump #11 out

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	<u>744</u>	<u>5,831.0</u>	<u>77423.0</u>
12. Number Of Hours Reactor Was Critical	<u>728.3</u>	<u>5,620.7</u>	<u>56689.6</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>1204</u>
14. Hours Generator On-Line	<u>714.2</u>	<u>5,561.2</u>	<u>54151.4</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>20.2</u>
16. Gross Thermal Energy Generated (MWH)	<u>1,178,000</u>	<u>9,437,333</u>	<u>87,891,342</u>
17. Gross Electrical Energy Generated (MWH)	<u>380,035</u>	<u>3,143,108</u>	<u>28,924,820</u>
18. Net Electrical Energy Generated (MWH)	<u>366,680</u>	<u>3,037,486</u>	<u>28,014,409</u>
19. Unit Service Factor	<u>95.9</u>	<u>95.4</u>	<u>70.1</u>
20. Unit Availability Factor	<u>95.9</u>	<u>95.4</u>	<u>70.1</u>
21. Unit Capacity Factor (Using MDC Net)	<u>80.8</u>	<u>88.4</u>	<u>61.2</u>
22. Unit Capacity Factor (Using DER Net)	<u>79.5</u>	<u>86.9</u>	<u>60.3</u>
23. Unit Forced Outage Rate	<u>4.0</u>	<u>2.1</u>	<u>10.5</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			

25. If Shut Down At End Of Report Period, Estimated Date of Startup: _____
 26. Units In Test Status (Prior to Commercial Operation):
- | | Forecast | Achieved |
|----------------------|----------|----------|
| INITIAL CRITICALITY | _____ | _____ |
| INITIAL ELECTRICITY | _____ | _____ |
| COMMERCIAL OPERATION | _____ | _____ |



UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-220
 UNIT NAME Nine Mile Point #1
 DATE 9/7/78
 COMPLETED BY T.J. Perkins
 TELEPHONE 315-343-2110
 ext 1512

REPORT MONTH AUGUST

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	Licensee Event Report #	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
	8-3-78	F	29.8	A-G-	3				Weekly Main Steam Isolation Valve partial closure test, Main Steam Isolation Valve closed causing scram. Possibility that operator tested isolation that was not selected for test
	8-11-78	F	12	B	1				#11 Rx. Feedwater pump removed from service to repair oil leak.
	8-17-78	S	6.6	H	1				Pull Shaping Rods
	8-27-78	F	102	H					#11 Rx Recirc Pump cooler leak

¹
 F: Forced
 S: Scheduled

²
 Reason:
 A-Equipment Failure (Explain)
 B-Maintenance of Test
 C-Refueling
 D-Regulatory Restriction
 E-Operator Training & License Examination
 F-Administrative
 G-Operational Error (Explain)
 H-Other (Explain)

³
 Method:
 1-Manual
 2-Manual Scram.
 3-Automatic Scram.
 4-Other (Explain)

⁴
 Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161)

⁵
 Exhibit I - Same Source

(9/77)



AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-220
 UNIT NMP#1
 DATE 9/7/78
 COMPLETED BY T.J. Perkins
 TELEPHONE 315-343-2110
 ext. 1312

MONTH AUGUST

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>538</u>	17	<u>533</u>
2	<u>538</u>	18	<u>538</u>
3	<u>26</u>	19	<u>531</u>
4	<u>224</u>	20	<u>493</u>
5	<u>438</u>	21	<u>523</u>
6	<u>466</u>	22	<u>522</u>
7	<u>525</u>	23	<u>525</u>
8	<u>532</u>	24	<u>535</u>
9	<u>536</u>	25	<u>545</u>
10	<u>539</u>	26	<u>541</u>
11	<u>535</u>	27	<u>522</u>
12	<u>499</u>	28	<u>493</u>
13	<u>534</u>	29	<u>488</u>
14	<u>533</u>	30	<u>484</u>
15	<u>532</u>	31	<u>481</u>
16	<u>535</u>		

INSTRUCTIONS

On this format, list the average daily unit power level in MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt.