

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

NARRATIVE OF OPERATING EXPERIENCE

October 1981

The Station operated during the Month of October with a monthly availability factor of 100% and a net design electrical rating capacity factor of 96.2%. Capacity factor losses were due to Rod Sequence Exchange performed October 16 through October 18.

CLASS I WORK - MAINTENANCE - OCTOBER 1981

- #14075 - Furmanited packing boxes on Feedwater valves #43 and 38 - 10/9/81.
- #15363 - Furmanited north end cover on #134 Feedwater Heater - 10/9/81.
- #15806 - Furmanited Feedwater valve #12 in MSIV Room - 10/15/81.
- #14135 - Furmanited 2nd stage reheater drain pressure control valve - 10/23/81.
- #13866 - Rebuilt seal on crank case to #11 Liquid Poison Pump - 10/19/81.

CLASS I WORK - INSTRUMENTATION AND CONTROL - OCTOBER 1981

- #14086 - #112 and #121 Main Steam Rad Monitors adj. trip settings - (adj. to 3000 mR/hr).
- #14087 - O<sub>2</sub> Gas Rad Monitor - adj. trip setting (adj. to 30,000 mR/hr).
- #14058 - CRD accum. s.o.v #38-39 air leak (replaced upper unit of s.o.v.)
- #14090 - #12 torus/drywell vacuum relief mimic light display (adj. switch).

CLASS I WORK - ELECTRICAL - OCTOBER 1981

- MO #1843 - Inadequate core cooling.
- MO #1850 - Post accident sampling.
- Surveillance Test procedure No. N1-ST-W1 125 VDC battery cell voltage and specific gravity test.

(1)

## UNIT SHUTDOWNS AND POWER REDUCTIONS

50-220

DOCKET NO.

UNIT NAME

DATE

COMPLETED BY

TELEPHONE

REPORT MONTH October 1981

Nine Mile #1

11/9/81

T. Roman

(315) 343-2110

X1385

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
8109	10/17/81	S	8	H	1				Load Reduction to 65% Power for Control Rod Seq. Exchange.

1

F: Forced

S: Scheduled

2

Reason:

A-Equipment Failure (Explain)

B-Maintenance of Test

C-Refueling

D-Regulatory Restriction

E-Operator Training &amp; 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

(10/77)

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-220

UNIT Nine Mile #1

DATE 11/9/81

COMPLETED BY T. Roman

TELEPHONE (315) 343-2110  
A1583

MONTH October 1981

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

1	598
2	599
3	600
4	601
5	602
6	603
7	603
8	597
9	589
10	591
11	591
12	590
13	596
14	601
15	604
16	583

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

17	521
18	588
19	599
20	602
21	604
22	602
23	602
24	605
25	605
26	503
27	606
28	605
29	603
30	589
31	603

## 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.

# OPERATING DATA REPORT

DOCKET NO. 50-220  
 DATE 11-9-81  
 COMPLETED BY T. Roman  
 TELEPHONE (315) 343-2110  
 X1383

## OPERATING STATUS

1. Unit Name: Nine Mile Point Unit #1
2. Reporting Period: 10/01/81 - 10/31/81
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):
10. Reasons For Restrictions, If Any:

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	745.0	7296.0	105,192.0
12. Number Of Hours Reactor Was Critical	745.0	4405.4	77,970.5
13. Reactor Reserve Shutdown Hours	0.0	0.0	1,204.2
14. Hours Generator On-Line	745.0	4317.2	75,225.8
15. Unit Reserve Shutdown Hours	0.0	0.0	20.4
16. Gross Thermal Energy Generated (MWH)	1,353,623.0	7,415,143.0	123,272,652.0
17. Gross Electrical Energy Generated (MWH)	457,632.0	2,460,557.0	40,659,473.0
18. Net Electrical Energy Generated (MWH)	444,258.0	2,383,321.0	39,370,874.0
19. Unit Service Factor	100.0	59.2	71.5
20. Unit Availability Factor	100.0	59.2	71.5
21. Unit Capacity Factor (Using MDC Net)	97.8	53.6	61.4
22. Unit Capacity Factor (Using DER Net)	96.2	52.7	60.4
23. Unit Forced Outage Rate	0.0	2.3	8.5
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):

INITIAL CRITICALITY  
 INITIAL ELECTRICITY  
 COMMERCIAL OPERATION

Forecast	Achieved

REPORT OF OPERATION FOR 10/1/81 - 10/31/81 PERIOD ENDING 12:00 MN ☒ EST ☐ DST Oct., 1981

ELECTRICAL

	UNIT NO. #1	UNIT NO. 102 Diesel	UNIT NO. 103 Diesel	TOTAL STATION
1. GENERATION - NET MWH	444,258.0			444,258.0
2. HOUSE SERVICE MWH	13,374.0			13,374.0
3. GENERATION - GROSS MWH	457,632.0			457,632.0
4. MINIMUM HOUR GENERATION - NET MW	450.0			450.0
5. MAXIMUM HOUR GENERATION - NET MW	610.0			610.0
6. DATE & TIME - MAX HR. LOAD	10/27/81 - 1600			
7. NOMINAL AVE. HYDROGEN PRESSURE LBS.	45.0			45.0
8. DIESEL GENERATOR KWH		3,000.0	3,000.0	6,000.0

MECHANICAL

9. TURBINE - NO. OF STARTS	0			0
10. BACK PRESSURE (NOTE 1) IN HG	1.78			1.78
11. CONDENSATE TEMP. (NOTE 1) °F	101.0			101.0
12. CIRC. WATER ENT. TEMP. (NOTE 1) °F	51.6			51.6
13. REACTOR - NO. OF STARTS	0			0
14. THERMAL POWER MW DAYS	56,324.4			56,324.4
15. BURN UP MW/D/TON	536.8			536.8
16. BURN UP REMAINING TO REFUEL MW/D/TON	6,590.6			6,590.6
17. DIESEL GEN. NO. OF STARTS		1	1	2
18. DIESEL FUEL BURNED GAL		200.0	170.0	390.0

RATES

19. HOUSE SERVICE %	2.9			2.9
20. CAPABILITY FACTOR (NOTE 2) %	97.8			97.8
21. LOAD FACTOR (NOTE 3) %	97.8			97.8
22. HYDROGEN LEAKAGE RATE/DAY CU FT	713.1			713.1
23. WATER RATE - GROSS LBS./KWH				
24.				
25. HEAT RATE (NOTE 4) BTU/NET KWH	10,385.1			10,385.1
26.				

UNIT HOURS

27. ON LOAD HRS	745.0			745.0
28. AVAILABLE HRS	745.0			745.0
29. UNAVAILABLE HRS	0.0			0.0
30. TURBINE-CAUSED IDLE (NOTE 5) HRS				
31. TURBINE AUX. " " HRS				
32. GENERATOR-CAUSED IDLE. " " HRS				
33. GENERATOR AUX. " " HRS				
34. REACTOR-CAUSED IDLENESS " " HRS				
35. REACT. AUX. " " HRS				
36. SYNCHRONOUS CONDENSER OPER. HRS				
37.				

FUEL SUMMARY KILOGRAMS

	TOTAL U	U235	U236	U238	PU239	PU240	PU241	PU242
38. START OF PERIOD								
39. RECEIVED								
40. SHIPPED								
41. SPENT (PRODUCED)								
42. END OF PERIOD								

NOTES

- TAKEN AT TIME OF MAX HR. LOAD.
- ITEM 1  $\div$  (NET RATED CAP.  $\times$  PERIOD HRS.)
- ITEM 1  $\div$  (ITEM 5  $\times$  PERIOD HRS.)
- $\left[ \frac{\text{ITEM 14} \times 24 \times 3412}{\text{ITEM 1}} \right]$
- FORCED OUTAGE - F. SCHEDULED OUTAGE - S.

T.E. Lempges  
C. Piper  
T. Bassett  
D. P. Dise  
C. Geniac

W. Arlukewicz  
S. Wilczek  
M.A. Silliman  
Factory Mutual  
Frances Bleskloski

J. Hallenbeck  
Power Control  
G. Eggars  
C.V. Mangan

SIGNED

*[Signature]*  
SUPERINTENDENT

( ) CUTGAGES - UNITS AND AUXILIARIES

MONTH, Oct., YEAR 1981

UNIT NO.	EQUIPMENT	DAY	AVAILABLE OR	TIME	HOURS		REASONS / REPAIRS
					UNAVAILABLE	PARTIALLY AVAILABLE	
1	Rx	10/16/81 10/17/81		2300 0700		8.0	Load action to Perform Control Rod Seq. Exchange

No. Hrs. Crit. 745.0  
 No. Normal Shutdowns 0  
 No. Scrums 0