

NIAGARA MOHAWK POWER CORPORATION

NINE MILE POINT NUCLEAR STATION UNIT #1

NARRATIVE OF OPERATING EXPERIENCE

August 1981

The Station operated during the month of August with a monthly availability factor of 100% and a net design electrical rating capacity factor of 93.9%. Capacity factor losses were mainly due to high condenser cooling water temperatures and resultant low condenser efficiency. Specific capacity factor losses were due to the following:

On August 16 an air operated main steam isolation valve outside primary containment failed to operate in the test circuitry mode during the bi-weekly partial closure surveillance test. Unit load was reduced to approximately 55% and the redundant motor operated valve inside the primary containment was closed, thus removing the one steam line from service. The affected valve was then fully stroked and then partially stroked in the test mode satisfactorily. The steam line was returned to service and power was restored within preconditioning limitations.

On August 27 a motor operated main steam isolation valve inside the primary containment failed to test satisfactorily in the test circuitry mode during the performance of the biweekly surveillance test as above. Unit load was reduced to approximately 70%, and the valve was partially stroked out of the test circuitry mode satisfactorily. Power level was again restored within preconditioning limitations.

CLASS I WORK - MAINTENANCE - AUGUST 1981

- #16851 - Replaced cooling water heat exchangers on #102
- #16998 - Replaced CRD #71494
- #16990 - Replaced CRD #7092
- #16995 - Replaced CRD #71627
- #16985 - Replaced CRD #71630

CLASS I WORK - INSTRUMENTATION AND CONTROL - AUGUST 1981

- #15020 - #11 Emergency ventilation radiation monitor causing alarms-replaced sensor converter unit
- #16493 - LPRM-12-17C Flux Amp replaced electromitor (VI)

CLASS I WORK - ELECTRICAL - AUGUST 1981

- #16805 - Tightened screw on BBJ-12 in K panel
- N1-MST-M1 Mo. Battery Readings

OPERATING DATA REPORT

DOCKET NO. 50-220
 DATE 9/8/81
 COMPLETED BY T. Roman
 TELEPHONE (315) 343-2110
 X1383

OPERATING STATUS

1. Unit Name: Nine Mile Point #1
2. Reporting Period: 08/01/81 - 08/31/81
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	744.0	5,831.0	103,727.0
12. Number Of Hours Reactor Was Critical	744.0	2,940.4	76,505.5
13. Reactor Reserve Shutdown Hours	0.0	0.0	1,204.2
14. Hours Generator On-Line	744.0	2,852.2	73,760.8
15. Unit Reserve Shutdown Hours	0.0	0.0	20.4
16. Gross Thermal Energy Generated (MWH)	1,358,299.0	4,738,972.0	120,596,481.0
17. Gross Electrical Energy Generated (MWH)	446,733.0	1,561,157.0	39,760,073.0
18. Net Electrical Energy Generated (MWH)	433,016.0	1,509,782.0	38,497,890.0
19. Unit Service Factor	100.0	48.9	71.1
20. Unit Availability Factor	100.0	48.9	71.1
21. Unit Capacity Factor (Using MDC Net)	95.4	42.4	60.8
22. Unit Capacity Factor (Using DER Net)	93.9	41.8	59.9
23. Unit Forced Outage Rate	0.0	3.5	8.6
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
_____	_____
_____	_____
_____	_____

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-227
 UNIT Nine Mile #1
 DATE 9/8/81
 COMPLETED BY T. Roman
 TELEPHONE (315) 343-2110
X1383

MONTH August 1981

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>585</u>
2	<u>581</u>
3	<u>579</u>
4	<u>579</u>
5	<u>581</u>
6	<u>585</u>
7	<u>590</u>
8	<u>590</u>
9	<u>585</u>
10	<u>584</u>
11	<u>585</u>
12	<u>585</u>
13	<u>583</u>
14	<u>584</u>
15	<u>582</u>
16	<u>497</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>580</u>
18	<u>586</u>
19	<u>588</u>
20	<u>587</u>
21	<u>587</u>
22	<u>586</u>
23	<u>585</u>
24	<u>580</u>
25	<u>587</u>
26	<u>588</u>
27	<u>574</u>
28	<u>589</u>
29	<u>588</u>
30	<u>593</u>
31	<u>588</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.

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH AUGUST 1981

DOCKET NO. 50-220
 UNIT NAME Night Mile #1
 DATE 9/8/81
 COMPLETED BY T. Roman
 TELEPHONE (315) 343-2110

X1383

No.	Date	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
				N O N E			N O N E		N O N E

1 F: Forced
S: Scheduled

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)

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)

(w/77)

5 Exhibit I - Same Source