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RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: Monthly operating rept for Nov 1998 for Nine Mile Point, Unit
2. With 981209 ltr.

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NV NIAGARA
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NINE MILE POINT—UNIT 2/P.O. BOX 63, LYCOMING, NY 13093/TELEPHONE (315) 343-2110

December 9, 1998
NMP2L 1840

United States Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555

RE: Nine Mile Point Unit 2
Docket No. 50-410
NPF-69

Subject: Monthly Operating Statistics for November 1998

Dear Sir:

Submitted herewith is the Operating Data Report, the Unit Shutdowns and Power Reductions, Narrative of Operating Experience, and Average Daily Unit Power Level for November 1998.

Very truly yours,

N. C. Paleologos

N. C. Paleologos
Plant Manager - Unit 2

/db

Enclosures

pc: H.J. Miller, Regional Administrator, Region 1
G.K. Hunegs, Senior Resident Inspector

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NIAGARA MOHAWK POWER CORPORATION
NINE MILE POINT NUCLEAR STATION UNIT #2
NARRATIVE OF OPERATING EXPERIENCE

Nine Mile Point Unit Two operated with a capacity factor (MDC) of 60.54% and an availability factor of 76.92% for the month of November 1998.

At the start of this report period, Nine Mile Point Unit Two was operating without the fourth point feedwater heater drain pump, 2HDL-P1C as reported in the October 1998 narrative. At the end of this reporting period, November 1998, the pump and motor have been re-installed and are expected to be placed back in service within the next few days.

On November 13, 1998 at 1454 hours, Nine Mile Point Unit 2 experienced a spurious full closure of the "B" recirculation flow control valve. In order to comply with Technical Specifications for recirculation loop flow mismatch, the "B" RCS pump was secured at approximately 75% of rated core thermal power reducing the unit to single loop operation. Core thermal power was reduced to approximately 55% where one feedwater pump was secured. Technicians were dispatched to troubleshoot the Hydraulic Power Unit (HPU) on the "B" recirculation flow control valve. Investigation and inspection of the HPU resulted in the replacement of failed components and revision to the modicon logic controlling pump operation on the HPU skid. Once the troubleshooting was completed, on November 23 at 0305 hours, Operations prepared to restart the "B" recirculation pump. When the switch was positioned to start the "B" pump, recirculation flow control valve 2RCS-FCV-B immediately traveled from 17% open to 10% open. The valve stopped due to HPU locking up on high rate of change in position and slowly drifted closed. With the second failure of the flow control valve, it was concluded that the problem was either the flow control valve linkage, the Rotary Variable Differential Transmitter (RVDT) or the RVDT coupling. It was determined that a drywell entry would be needed to investigate. Operations began reducing core thermal power and on November 24, 1998 at 1001 hours, the mode switch was placed in shut down.

Technicians found that the RVDT coupling on the recirculation flow control valve 2RCS-FCV-B had failed. The cause of the failure is believed to be cyclic fatigue from the pump / flow induced vibration. The coupling has been sent to a metallurgical lab for further analysis. Repairs were made to the recirculation flow control valve 2RCS-FCV-B and at 0559 hours on November 30, 1998, the reactor mode switch was placed in startup (Mode 2) and the startup process began.

At the end of this reporting period on November 30, 1998 at 1942 hours, Nine Mile Point Unit Two's reactor was taken critical and power ascension is continuing.

There were no challenges to the safety relief valves during this report period.



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OPERATING DATA REPORT

DOCKET NO.: 50-410

DATE: 981202

PREPARED BY: C. Caroccio

TELEPHONE: (315) 349-4615

OPERATING STATUS

- 1. Unit Name: Nine Mile Point Unit #2
- 2. Reporting Period: NOVEMBER 1998
- 3. Licensed Thermal Power (MWt): 3467
- 4. Nameplate Rating (Gross MWe): 1259
- 5. Design Electrical Rating (Net MWe): 1143
- 6. Maximum Dependable Capacity (Gross MWe): 1169.67
- 7. Maximum Dependable Capacity (Net MWe): 1105.44
- 8. If Changes Occur in Capacity Ratings (Items Number 3 through 7) Since Last Report, Give Reason: None.
- 9. Power Level To Which Restricted, If Any (Net Mwe): None.
- 10. Reasons For Restrictions, If Any: None.

Items 21 and 22 Cum. are weighted values.

	<u>This Month</u>	<u>Yr-to-Date</u>	<u>Cumulative</u>
11. Hours in Reporting Period	720.00	8,016.00	93,409.00
12. Number of Hours Reactor was Critical	566.32	6,390.70	71,072.83
13. Reactor Reserve Shutdown Hours	0.00	0.00	0.00
14. Hours Generator On-Line	553.80	6,305.70	68,672.82
15. Unit Reserve Shutdown Hours	0.00	0.00	12.98
16. Gross Thermal Energy Generated (MWH)	1,517,344.56	20,137,149.17	219,911,027.86
17. Gross Electrical Energy Generated (MWH)	511,675.92	6,895,761.43	73,893,512.64
18. Net Electrical Energy Gen. (MWH)	481,824.88	6,510,161.47	69,618,665.18
19. Unit Service Factor	76.92%	78.66%	73.52%
20. Unit Availability Factor	76.92%	78.66%	73.53%
21. Unit Capacity Factor (Using MDC Net)	60.54%	73.47%	70.02%
22. Unit Capacity Factor (Using DER Net)	58.55%	71.05%	67.79%
23. Unit Forced Outage Rate	23.08%	2.57%	11.83%
24. Shutdowns Scheduled Over Next 6 Months (Type, Date and Duration of Each): None			
25. If Shut Down At End of Report Period, Estimated Date of Startup: 11/30/98			
26. Unit in Test Status (Prior to Commercial Operation):			

	<u>Forecast</u>	<u>Achieved</u>
INITIAL CRITICALITY		05/23/87
INITIAL ELECTRICITY		08/08/87
COMMERCIAL OPERATION		04/05/88



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APPENDIX B
AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.: 50-410
UNIT: NMP2
DATE: 981202
PREPARED BY: C. Caroccio
TELEPHONE: (315) 349-4615

MONTH NOVEMBER 1998

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1132	17	661
2	1134	18	663
3	1134	19	663
4	1135	20	645
5	1135	21	344
6	1135	22	442
7	1122	23	220
8	1134	24	157
9	1134	25	0
10	1090	26	0
11	1109	27	0
12	1128	28	0
13	952	29	0
14	629	30	0
15	663	31	0
16	661		



100

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO: 50-410

UNIT NAME: NMP#2

DATE: 981202

REPORT MONTH - NOVEMBER 1998

PREPARED BY: C. Caroccio

TELEPHONE: (315) 349-4615

No.	Date	Type ¹	Duration (Hours)	Reasons ²	Method of Shutting Down Reactor ³	Licensee Event Report #	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
98-07	981124	F	166.2	A	2		RCS	2RCS-FCV-B	Recirculation flow control valve "B" failure. Found broken RVDT coupling. Coupling replaced. Unit in power ascension at end of report period.

¹
F: Forced
S: Scheduled

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

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

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

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Exhibit I-Same Source

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