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SUBJECT: Monthly operating rept for Aug 1991 for Nine Mile Point Unit 2.W/910912 ltr.

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NIAGARA MOHAWK

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

September 12, 1991
NMP79671

U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555

SUBJECT: Operating Statistics-August 1991
Unit Shutdowns and Power Reductions
Docket No. 50-410
NINE MILE POINT-UNIT 2

Dear Sir:

Submitted herewith is the Report of Operating Statistics and the Unit Shutdowns and Power Reductions summary for August 1991 for the Nine Mile Point Nuclear Station Unit 2.

Also included is a narrative report of Operation Experience for August 1991.

Very truly yours,

Martin J. McCormick, Jr.
Plant Manager - NMP#2

MJM/tld
Enclosures

xc: Regional Administrator, Region I
W. L. Schmidt, Senior Resident Inspector

NIAGARA MOHAWK POWER CORPORATION

NINE MILE POINT NUCLEAR STATION UNIT #2

NARRATIVE OF OPERATING EXPERIENCE

Nine Mile Point Unit 2 operated with a capacity factor of 38.71% (MDC - net) and an availability factor of 39.52% during the month of August 1991.

At 0548 hours on August 13, 1991, Nine Mile Point Unit 2 (NMP2) experienced a turbine trip and reactor scram when the "B" Phase Main Transformer developed an internal fault. The transformer fault created an electrical disturbance throughout normal electrical system, resulting in the loss of five non-safety related Uninterruptible Power Supplies (UPS). As a result, the Control Room lost annunciation and most Balance of Plant (BOP) instrumentation. The conditions described in LER 91-17 mandated entry into a Site Area Emergency as specified by the Site Emergency Plan. Prior to the event, NMP2 was in operational condition 1 (RUN) at 100% rated thermal power.

The root cause of the transformer fault is still under investigation.

Control Room operators verified the reactor scram, identified and re-energized the failed UPSs, located the cause of the reactor scram, and cooled down the reactor to terminate the emergency event. Other corrective actions included: 1) replacing the "B" phase transformer with the installed spare; 2) modifying the UPSs; 3) replacement of back-up batteries in UPS; 4) implementing a back-up battery replacement schedule; and 5) revision of the Reactor Water Cleanup Operating Procedure.

During the event, two Main Steam System (MSS) Safety Relief Valves (SRVs), 2MSS*PSV128 and 2MSS*PSV133, lifted for approximately 30 seconds, to limit reactor pressure to 1070 psig; both valves functioned as designed.

OPERATING DATA REPORT

DOCKET NO.: 50-410
DATE: 9/05/91
PREPARED BY: R. Saunderson
TELEPHONE: (315) 349-4888

OPERATING STATUS

1. Unit Name: **Nine Mile Point Unit #2**
2. Reporting Period: **August 1-31, 1991**
3. Licensed Thermal Power (MWt): **3323**
4. Nameplate Rating (Gross MWe): **1214**
5. Design Electrical Rating (Net MWe): **1097**
6. Maximum Dependable Capacity (Gross MWe): **1144.7**
7. Maximum Dependable Capacity (Net MWe): **1082.7**

Notes
Items 21 and 22 Cum. are weighted values.

8. If Changes Occur in Capacity Ratings (Items Number 3 through 7) Since Last Report, Give Reasons:
   Items 6 and 7 recalculated monthly, based on ambient restrictions, when operating greater than or equal to 80% CTP.

9. Power Level To Which Restricted, If Any (Net MWe): **0 (Unit Shutdown)**

10. Reasons For Restrictions, If Any: **Unit to remain shutdown pending resolution of UPS Failure Event and NRC permission to restart.**

	This Month	Yr-to-Date	Cumulative
11. Hours in Reporting Period	744.0	5,831.0	29,856.0
12. Number of Hours Reactor Was Critical	294.0	4,654.3	17,643.2
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator On-Line	294.0	4,357.23	16,684.23
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	974,666.88	13,845,334.09	49,645,804.14
17. Gross Electrical Energy Generated (MWH)	330,271.69	4,686,720.39	16,458,945.81
18. Net Electrical Energy Generated (MWH)	311,802.30	4,418,016.56	15,441,799.81
19. Unit Service Factor	39.52	74.73	55.88
20. Unit Availability Factor	39.52	74.73	55.88
21. Unit Capacity Factor (Using MDC Net)	38.71	69.48	47.62
22. Unit Capacity Factor (Using DER Net)	38.20	69.07	47.36
23. Unit Forced Outage Rate	60.48	15.02	23.45

24. Shutdowns Scheduled Over Next 6 Months (Type, Date and Duration of Each):
    Refuel, 3/1/92, 75 days

25. If Shut Down At End of Report Period, Estimated Date of Startup: Unknown
26. Unit in Test Status (Prior to Commercial Operation):

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

APPENDIX B
AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.: 50-410
Unit: NMP2
DATE: 9/05/91
PREPARED BY: R. Saunderson
TELEPHONE: (315) 349-4888

9/11/91

MONTH August 1991

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1057	17	0
2	1051	18	0
3	1059	19	0
4	1065	20	0
5	1065	21	0
6	1066	22	0
7	1063	23	0
8	1061	24	0
9	1061	25	0
10	1051	26	0
11	1064	27	0
12	1065	28	0
13	1065 (Note 1)	29	0
14	0	30	0
15	0	31	0
16	0		

Note 1: **For 6 hours only; daily average, including down time: 266**

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

DOCKET NO: 50-410
UNIT NAME: NMP#2
DATE: 9/05/91
PREPARED BY: R. Saundersen
TELEPHONE: (315) 349-4888

REPORT MONTH - August 1991

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
9103	08/13/91	F	450	A	3	91-17	(6)	(6)	Failure of "B" Phase Main Generator Step-up Transformer (2MTX-XM1B) resulting from internal fault. Subsequent simultaneous trip of five (5) Exide UPSs, and failure of automatic transfer of load to maintenance power supply. Root cause of the transformer failure still under investigation. Root cause of simultaneous trips of 5 UPSs is design deficiency. Failed "B" phase transformer was disconnected; the spare transformer was connected to the "B" phase. The logic power supply to the UPSs have been modified.

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)

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

6
Refer to LER 91-17

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO: 50-416
UNIT NAME: NMP#2
DATE: 9/05/91
PREPARED BY: R. Saunderson
TELEPHONE: (315) 349-4888

REPORT MONTH - August 1991

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
Continued 9103	08/13/91								Continued All UPS internal batteries have been replaced. A backup battery replacement schedule has been implemented. The Reactor Water Cleanup Operating Procedure has been revised. (Refer to LER 91-17 for further details)

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)

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)

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Exhibit I-Same Source