

50-220

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MONTHLY REPORT

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TO:

N. R. C.

FROM:

Niagara Mohawk Power Corp.
Syracuse, New York
R. R. Schneider☒ LETTER☐ NOTORIZED

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1 SIGNED

DESCRIPTION

Letter trans the following:

(1-P)

PLANT NAME:

Nine Mile Point Unit No.1

RJL

ENCLOSURE

Monthly Report for APRIL, 1977
Plant & Component Operability & Availability.
This Report to be used in preparing Gray Book
by Plans & Operations.

(3-P)

ACKNOWLEDGED
DO NOT REMOVE

FOR ACTION/INFORMATION

MIPC W/2 CYS FOR ACTION

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TIC

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CONTROL NUMBER

771340006

NIAGARA MOHAWK POWER CORPORATION

NIAGARA  MOHAWK300 ERIE BOULEVARD, WEST
SYRACUSE, N. Y. 13202

May 5, 1977



Office of Plans & Schedules
Directorate of Licensing
United States Nuclear Regulatory Commission
Washington, D.C. 20555


File Cy.

RE: Docket No. 50-220

Gentlemen:

Submitted herewith is the Operating Status Report for the
month of April 1977 for the Nine Mile Point Nuclear Station
Unit #1.

Very truly yours,


R.R. Schneider
Vice President -
Electric Production

MAS/mtm

Enc.

MAY 12 1977

771340006

1911 MAY 13 PM 12 44

RECEIVED DOCUMENT
PROCESSING UNIT

NINE MILE POINT NUCLEAR STATION
NIAGARA MOHAWK POWER CORPORATION
AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-220

UNIT Nine Mile Point #1

DATE 05/05/77

COMPLETED BY T.J. Perkins *TJP*

TELEPHONE 315-343-2110 Ext-1312

MONTH April, 1977

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	_____
2	_____
3	_____
4	_____
5	_____
6	_____
7	_____
8	_____
9	_____
10	_____
11	_____
12	_____
13	_____
14	_____
15	_____
16	_____

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	_____
18	_____
19	_____
20	_____
21	_____
22	_____
23	_____
24	_____
25	_____
26	_____
27	_____
28	_____
29	_____
30	_____
31	_____

REMARKS:



Country	1950	1955	1960	1965	1970	1975	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025
Japan	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Germany	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
France	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Italy	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Spain	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Sweden	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
United Kingdom	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
United States	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Canada	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Australia	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
South Korea	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
China	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
India	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
Brazil	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
Argentina	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
South Africa	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Indonesia	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Nigeria	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
Kenya	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
Uganda	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43
Malawi	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
Zambia	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Zimbabwe	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
Botswana	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
Swaziland	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
Lesotho	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
Madagascar	35	36	37	38	39	40	41	42	43	44						

A schematic diagram of a 2D Cartesian coordinate system. The horizontal axis is labeled 'x' and the vertical axis is labeled 'y'. A point is marked with a small square and labeled 'P'. A line segment connects the origin (0,0) to point P. The angle between the positive x-axis and this line segment is labeled 'theta'.

1

• 0

1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

61

$$\frac{d}{dt} \left(\frac{1}{\rho} \right) = - \frac{1}{\rho^2} \frac{d\rho}{dt} = - \frac{1}{\rho^2} \left(\frac{\partial \rho}{\partial t} + \nabla \cdot (\rho \mathbf{v}) \right)$$

□ $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ $\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$

10

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NINE MILE POINT NUCLEAR STATION
NIAGARA MOHAWK POWER CORPORATION

OPERATING DATA REPORT

DOCKET NO. 50-220

UNIT Nine Mile Point #1

DATE 05/05/77

COMPLETED BY T.J. Perkins

TELEPHONE (315-343-2110 Ext-1312

OPERATING STATUS

1. REPORTING PERIOD: 770401-770430 GROSS HOURS IN REPORTING PERIOD: 719

2. CURRENTLY AUTHORIZED POWER LEVEL (MWh): 1850 MAX. DEPEND. CAPACITY (MWe-Net): 610
DESIGN ELECTRICAL RATING (MWe-Net): 610

3. POWER LEVEL TO WHICH RESTRICTED (IF ANY) (MWe-Net): _____

4. REASONS FOR RESTRICTION (IF ANY): _____

	THIS MONTH	YR TO DATE	CUMULATIVE
5. NUMBER OF HOURS REACTOR WAS CRITICAL	<u>0</u>	<u>1,504.1</u>	<u>47,229.5</u>
6. REACTOR RESERVE SHUTDOWN HOURS	<u>0</u>	<u>16.2</u>	<u>1,204.2</u>
7. HOURS GENERATOR ON LINE	<u>0</u>	<u>1,489.1</u>	<u>44,995.9</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>0</u>	<u>0</u>	<u>20.2</u>
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>0</u>	<u>2,633,896</u>	<u>71,935,403</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>0</u>	<u>868,784</u>	<u>23,606,839</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>0</u>	<u>841,217</u>	<u>22,872,138</u>
12. REACTOR SERVICE FACTOR	<u>0</u>	<u>52.2</u>	<u>71.9</u>
13. REACTOR AVAILABILITY FACTOR	<u>0</u>	<u>52.8</u>	<u>73.7</u>
14. UNIT SERVICE FACTOR	<u>0</u>	<u>51.7</u>	<u>68.5</u>
15. UNIT AVAILABILITY FACTOR	<u>0</u>	<u>51.7</u>	<u>68.5</u>
16. UNIT CAPACITY FACTOR (Using MDC)	<u>0</u>	<u>47.9</u>	<u>57.1</u>
17. UNIT CAPACITY FACTOR (Using Design MWe)	<u>0</u>	<u>47.9</u>	<u>57.1</u>
18. UNIT FORCED OUTAGE RATE	<u>0</u>	<u>1.7</u>	<u>12.2</u>

19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH): _____

20. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: 77/06/30

1102

NINE MILE POINT NUCLEAR STATION
NIAGARA MOHAWK POWER CORPORATION

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-220

UNIT NAME Nine Mile Point #1

DATE 05/05/77

COMPLETED BY T.J. Perkins *TJ Perkins*

TELEPHONE 315-343-2110 Ext-1312

REPORT MONTH April, 1977

NO.	DATE	TYPE F: FORCED S: SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR OR REDUCING POWER (2)	CORRECTIVE ACTIONS/COMMENTS
2	3/5/77	S	719	C	1	Refueling & Annual Overhaul

(1) REASON
A: EQUIPMENT FAILURE (EXPLAIN)
B: MAINT. OR TEST
C: REFUELING
D: REGULATORY RESTRICTION
E: OPERATOR TRAINING AND
LICENSE EXAMINATION
F: ADMINISTRATIVE
G: OPERATIONAL ERROR (EXPLAIN)
H: OTHER (EXPLAIN)

(2) METHOD
1: MANUAL
2: MANUAL SCRAM.
3: AUTOMATIC SCRAM
4: OTHER (EXPLAIN)

SUMMARY:

CONFIDENTIAL