

AEC DISTRIBUTION FOR PART 50 DOCKET MATERIAL
(TEMPORARY FORM)

CONTROL NO: 8178

FILE:

FROM: Niagara Mohawk Power Corporation Syracuse, N. Y. 13202 R. R. Schneider		DATE OF DOC 8-1-74	DATE REC'D. 8-7-74	LTR X	TWX	RPT	OTHER
TO:		ORIG	CC	OTHER	SENT AEC PDR X SENT LOCAL PDR X		
CLASS	UNCLASS	PROP INFO.	INPUT	NO CYS REC'D	DOCKET NO:		
	XXXX			1	50-220		
DESCRIPTION: Ltr. trans the following:				ENCLOSURES: Monthly Report for <u>July 1974</u> Plant & Component Operability & Availability This Report to be use for preparing Grey Book by Plans & Operations.....			
PLANT NAME: Nine Mile Point Unit # 1				No. of Copies Rec'd <u>1</u>			

Do Not Remove
ACKNOWLEDGED

FOR ACTION/INFORMATION 8-7-74 AB

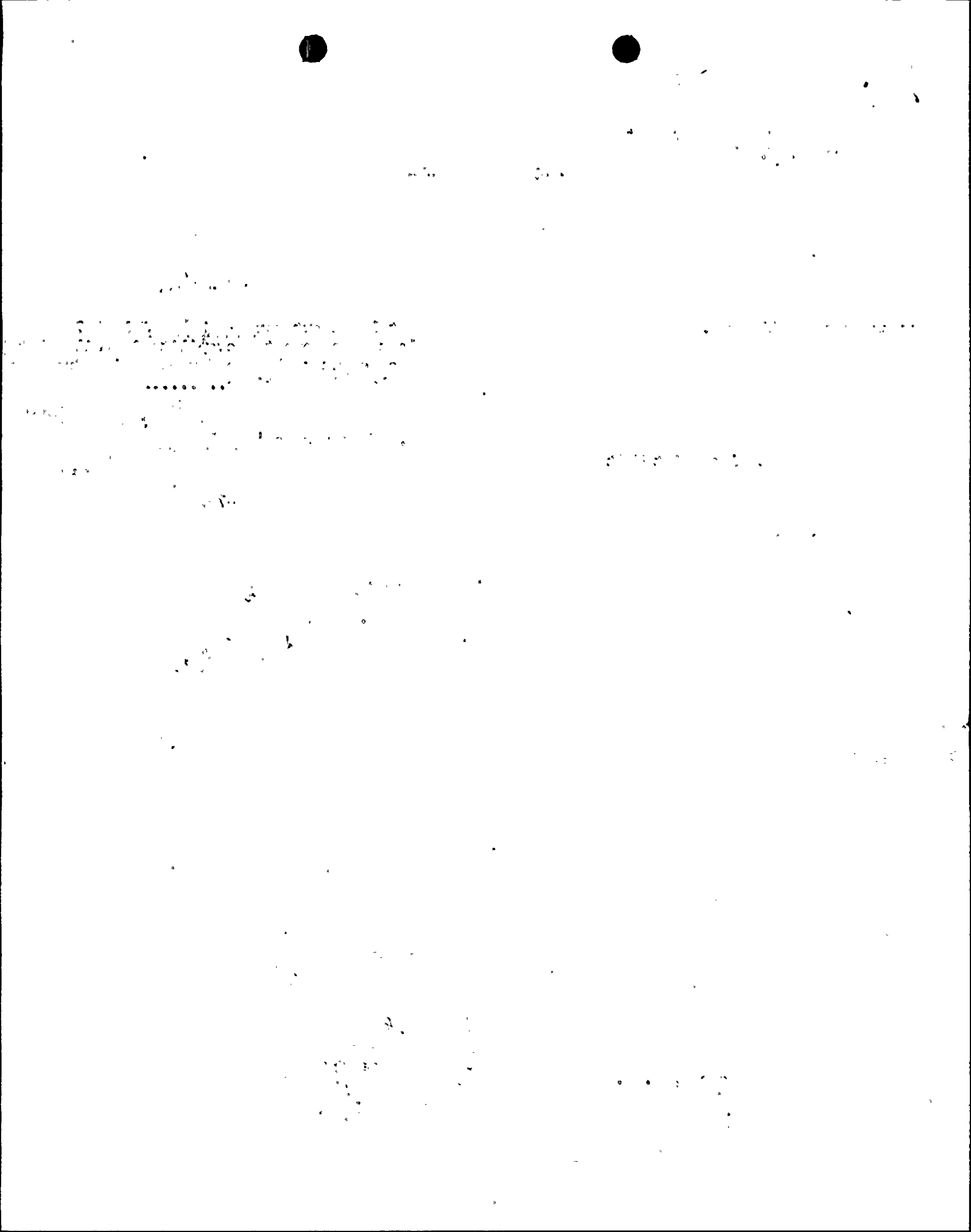
- | | | | |
|----------------------|-------------------------|--------------------------|----------------------|
| BUTLER (L)
W/ CYS | SCHWENGER (L)
W/ CYS | ZIEMANN (L)
W/ CYS | REGAN (E)
W/ CYS |
| CLARK (L)
W/ CYS | STOLZ (L)
W/ CYS | DICKER (E)
W/ CYS | LEAR
W/ 1 CYS |
| FARR (L)
W/ CYS | VASSALLO (E)
W/ CYS | KNIGHTON (E)
W/ CYS | W. MAGEE
W/ 2 CYS |
| KNIEL (L)
W/ CYS | PURPLE (L)
W/ CYS | YOUNGBLOOD (E)
W/ CYS | W/ CYS |

INTERNAL DISTRIBUTION

- | | | | | |
|--|-------------------------------------|-----------------------------|-------------------------------------|---------------------------------|
| <u>REG FILE</u>
AEC PDR
OGC | TECH REVIEW
HENDRIE
SCHROEDER | DENTON
GRIMES
GAMMILL | LIC ASST
DIGGS (L)
GEARIN (L) | A/T IND
BRAITMAN
SALTZMAN |
| MUNTZING/STAFF
CASE | MACCARY
KNIGHT | KASTNER
BALLARD | GOULBOURNE (L)
KREUTZER (E) | B. HURT |
| GIAMBUSSO
BOYD | PAWLICKI
SHAO | SPANGLER | LEE (L)
MAIGRET (L) | PLANS
MCDONALD
CHAPMAN |
| MOORE (L)(LWR-2)
DEYOUNG (L)(LWR-1) | STELLO
HOUSTON | ENVIRO
MULLER | REED (E)
SERVICE (L) | DUBE w/input
E. COUPE |
| SKOVHOLT (L)
GOLLER (L) | NOVAK
ROSS | DICKER
KNIGHTON | SHEPPARD (L)
SLATER (E) | D. THOMPSON (2)
KLECKER |
| P. COLLINS
DENISE | IPPOLITO
TEDESCO | YOUNGBLOOD
REGAN | SMITH (L)
TEETS (L) | EISENHUT |
| REG OPR
FILE & REGION (3) | LONG
LAINAS | PROJECT MGR | WILLIAMS (E)
WILSON (L) | |
| MORRIS
STEELE | BENAROYA
VOLLMER | HARLESS | | |

EXTERNAL DISTRIBUTION

- | | | | |
|-------------------|---------------|-------------------------------|---------------------------------------|
| 1 - LOCAL PDR | Oswego, N. Y. | (1)(2)(10)-NATIONAL LABS | 1-PDR-SAN/LA/NY |
| 1 - TIC | (ABERNATHY) | 1-ASLBP(E/W Bldg, Rm 529) | 1-BROOKHAVEN NAT LAB |
| 1 - NSIC | (BUCHANAN) | 1-W. PENNINGTON, Rm E-201 GT | 1-G. ULRIKSON, ORNL |
| 1 - ASLB | | 1-B&M SWINEBROAD, Rm E-201 GT | 1-AGMED (RUTH GUSSMAN)
Rm B-127 GT |
| 1 - P. R. DAVIS | | 1-CONSULTANTS | 1-RD. MUELLER, Rm F-309
GT |
| 16 - AGRS HOLDING | | NEWMARK/BLUME/ACBABIAN | |



Regulatory

Encl. Cy.

NIAGARA MOHAWK POWER CORPORATION

NIAGARA  MOHAWK

300 ERIE BOULEVARD WEST
SYRACUSE, N. Y. 13202

August 1, 1974

Office of Plans & Schedules
Directorate of Licensing
United States Atomic Commission
Washington, D. C. 20545

50 - 220



Gentlemen:

Please find enclosed, copies of the following reports for the
Nine Mile Point Nuclear Station Unit 1:

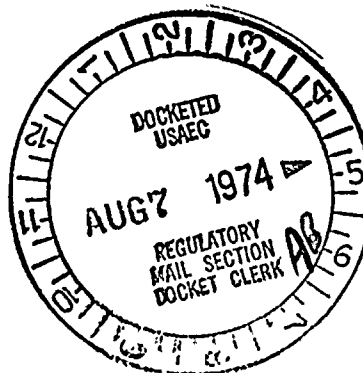
1. Daily Plant Power
2. Operating Status
3. Plant Shutdowns

Very truly yours,


R. R. Schneider

Vice-President--Electric Operations

TJP/jmw
cc: RO:I
Enclosures - 3



8178



1942

1943

1944

1945

1946

UNIT NINE MILE POINT No. 1DATE 74 0801COMPLETED BY T. J. PERKINSDAILY PLANT POWER OUTPUTMONTH JULY, 1974

<u>DAY</u>	<u>AVERAGE DAILY MWe-net</u>	<u>DAY</u>	<u>AVERAGE DAILY MWe-net</u>
1	<u>0</u>	25	<u>539</u>
2	<u>75</u>	26	<u>540</u>
3	<u>168</u>	27	<u>539</u>
4	<u>218</u>	28	<u>540</u>
5	<u>284</u>	29	<u>542</u>
6	<u>335</u>	30	<u>551</u>
7	<u>383</u>	31	<u>546</u>
8	<u>422</u>		
9	<u>407</u>		
10	<u>431</u>		
11	<u>475</u>		
12	<u>483</u>		
13	<u>380</u>		
14	<u>445</u>		
15	<u>494</u>		
16	<u>517</u>		
17	<u>530</u>		
18,	<u>531</u>		
19	<u>512</u>		
20	<u>368</u>		
21	<u>439</u>		
22	<u>488</u>		
23	<u>494</u>		
24	<u>526</u>		

UNIT NAME Nine Mile Point No. 1
 DATE 74 0801
 COMPLETED BY T. J. Perkins - Station Superintendent

OPERATING STATUS

1. REPORTING PERIOD: 740701 TO 740731
 GROSS HOURS IN REPORTING PERIOD: 744
2. CURRENTLY AUTHORIZED POWER LEVEL Mwt 1850 MWe-NET 610
3. POWER LEVEL TO WHICH RESTRICTED (IF ANY): None
4. REASONS FOR RESTRICTIONS (IF ANY):

	THIS MONTH	YR-TO-DATE	CUMULATIVE TO DATE
5. HOURS REACTOR WAS CRITICAL.	739.12	2939.27	Not Available
6. HOURS GENERATOR ON-LINE	709.8	2,822.45	26,187.08
7. GROSS THERMAL POWER GENERATED (MWT)	1,020,624	4,579,270	40,943,053
8. GROSS ELECTRICAL POWER GENERATED (MWH)	326,935	1,528,760	13,495,843
9. NET ELECTRICAL POWER GENERATED (MWH)	316,758	1,482,494	13,076,986
10. REACTOR AVAILABILITY FACTOR (1)	99.34	57.7	Not Available
11. PLANT AVAILABILITY FACTOR (2)	95.4	55.4	62.9
12. PLANT CAPACITY FACTOR (3)	69.8	47.8	51.5
13. FORCED OUTAGE RATE (4)	0	0	15.3

14. SHUTDOWNS SCHEDULED TO BEGIN IN NEXT 6 MONTHS (STATE TYPE, DATE AND DURATION OF EACH):

15. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: _____

16. PLANTS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION) REPORT THE FOLLOWING:

	DATE LAST FORECAST	DATE ACHIEVED	REASON FOR DIFFERENCE
INITIAL CRITICALITY	_____	_____	_____
INITIAL ELECTRICAL POWER GENERATION	_____	_____	_____
COMMERCIAL OPERATION	_____	_____	_____

- (1) REACTOR AVAILABILITY FACTOR = $\frac{\text{HOURS REACTOR WAS CRITICAL}}{\text{GROSS HOURS IN REPORTING PERIOD}} *100$
- (2) PLANT AVAILABILITY FACTOR = $\frac{\text{HOURS GENERATOR ON-LINE}}{\text{GROSS HOURS IN REPORTING PERIOD}} *100$
- (3) PLANT CAPACITY FACTOR = $\frac{\text{NET ELECTRICAL POWER GENERATED}}{\text{CURRENTLY LICENSED POWER LEVEL * GROSS HOURS IN REPORTING PERIOD}} *100$
- (4) FORCED OUTAGE RATE = $\frac{\text{FORCED OUTAGE HOURS}}{\text{HOURS GENERATOR ON-LINE + FORCED OUTAGE HOURS}} *100$

THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

PHYSICS 551 - QUANTUM MECHANICS

PROBLEM SET 1

1998

1.1

1.2

1.3

1.1. A particle of mass m is confined to a one-dimensional box of length L . The wave function is given by $\psi(x) = \sqrt{\frac{2}{L}} \sin\left(\frac{n\pi x}{L}\right)$ for $0 \leq x \leq L$ and zero elsewhere. Find the probability of finding the particle in the region $0 \leq x \leq L/4$.

1.2. A particle of mass m is confined to a one-dimensional box of length L . The wave function is given by $\psi(x) = \sqrt{\frac{2}{L}} \sin\left(\frac{n\pi x}{L}\right)$ for $0 \leq x \leq L$ and zero elsewhere. Find the probability of finding the particle in the region $L/4 \leq x \leq L/2$.

1.3. A particle of mass m is confined to a one-dimensional box of length L . The wave function is given by $\psi(x) = \sqrt{\frac{2}{L}} \sin\left(\frac{n\pi x}{L}\right)$ for $0 \leq x \leq L$ and zero elsewhere. Find the probability of finding the particle in the region $L/2 \leq x \leq 3L/4$.

1.4

SUMMARY:

Unit No. 1 Shutdown for Annual
Overhaul and Refueling

UNIT NAME Nine Mile Point No.1

DATE 740801

COMPLETED BY T. J. Perkins

REPORT MONTH JULY, 1974

P L A N T S H U T D O W N S

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	COMMENTS
1	740330	S	34.2	C	A	

(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)

(2) METHOD:
 A- MANUAL
 B- MANUAL SCRAM
 C- AUTOMATIC SCRAM

