

UNIT Three Mile Island Unit 1

DATE July 9, 1975

COMPLETED BY L. L. Lawyer

TEL. NO. 215-929-3601, Ext. 567

DAILY PLANT POWER OUTPUT

MONTH June, 1975

<u>DAY</u>	<u>AVERAGE DAILY MWe-net</u>	<u>DAY</u>	<u>AVERAGE DAILY MWe-net</u>
1	<u>-5</u>	21	<u>566</u>
2	<u>-5</u>	22	<u>763</u>
3	<u>-6</u>	23	<u>720</u>
4	<u>-10</u>	24	<u>777</u>
5	<u>-11</u>	25	<u>100</u>
6	<u>-12</u>	26	<u>-41</u>
7	<u>-15</u>	27	<u>350</u>
8	<u>-30</u>	28	<u>644</u>
9	<u>-42</u>	29	<u>776</u>
10	<u>-42</u>	30	<u>786</u>
11	<u>92</u>	31	<u>--</u>
12	<u>604</u>		
13	<u>645</u>		
14	<u>656</u>		
15	<u>750</u>		
16	<u>784</u>		
17	<u>787</u>		
18	<u>407</u>		
19	<u>218</u>		
20	<u>636</u>		

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SUMMARY: From June 1 to June 11, 1975 the unit was still shutdown for the control rod interchange outage. On June 9, the reactor was taken critical and zero-power physics testing was performed. On June 11, power escalation commenced. Additional physics testing was performed at 80% of full power. Power was increased to 100% on June 16 and the unit remained at essentially full power until June 18 when the reactor tripped due to a turbine load transient caused by erroneous control signals. During the rise to power after this trip, the turbine was removed from service on June 21 due to main transformer problems. Full power was achieved on June 22. On June 23, load was reduced for a short period due to main transformer malfunctions and the unit was returned to full power. On June 25, the reactor tripped due to imbalance because control rod Group 7 Phase B bus bar faulted to neutral causing Group 7 to drop into the core. An attempt was made to put the turbine on line on June 26 but water in the high pressure turbine caused a turbine trip on high eccentricity. The turbine was returned to service on June 27, full power was achieved on June 29, and the unit operated at essentially full power for the remainder of the month.

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 REPORT MONTH June, 1975

# PLANT SHUTDOWNS

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	COMMENTS
8	6/1/75	S	253.3	B	A	Continuation of control rod interchange outage started on May 31, 1975.
9	6/18/75	F	20.2	A	C	A brush recorder monitoring the turbine electro hydraulic control (EHC) System caused erroneous voltage spikes to be fed into the EHC System resulting in rapid load reduction and reactor trip on high pressure. *
10	6/21/75	F	3.6	A	NA	The turbine had to be taken off line due to main transformer problems. Reactor power was reduced to 15% to remove the turbine from service. *
11	6/25/75	F	27.3	A	C	Reactor trip due to high positive imbalance created when control rod Group 7 Phase B bus bar faulted to neutral causing Group 7 control rods to drop into the core. **
12	6/26/75	F	24.2	A	NA	When attempting to put the turbine on line after the reactor was returned to service, the turbine tripped due to high eccentricity. *

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(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

(2) METHOD:

A-MANUAL

B-MANUAL SCRAM

C-AUTOMATIC SCRAM

\* Non-Nuclear Equipment

\*\* Nuclear Equipment

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# OPERATING STATUS

1. REPORTING PERIOD: 0001, 750601 THROUGH 2400, 750630

GROSS HOURS IN REPORTING PERIOD: 720

2. CURRENTLY AUTHORIZED POWER LEVEL Mwt 2535 MWe-NET 792 (MAXIMUM DEPENDABLE CAPACITY - MDC)

3. POWER LEVEL TO WHICH RESTRICTED (IF ANY): None

4. REASONS FOR RESTRICTIONS (IF ANY): Not Applicable

	THIS MONTH	YR-TO-DATE	CUMULATIVE TO DATE
5. HOURS REACTOR WAS CRITICAL . . . . .	<u>484.0</u>	<u>3732.0</u>	<u>6314.8</u>
6. REACTOR RESERVE SHUTDOWN HOURS . . . . .	<u>0</u>	<u>0</u>	<u>0.0</u>
7. HOURS GENERATOR ON-LINE . . . . .	<u>391.4</u>	<u>3553.5</u>	<u>6113.5</u>
8. UNIT RESERVE SHUTDOWN HOURS . . . . .	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL POWER GENERATED (MWH) . . . .	<u>879,746</u>	<u>8,643,298</u>	<u>14,839,700</u>
10. GROSS ELECTRICAL POWER GENERATED (MWH) . . .	<u>286,684</u>	<u>2,928,443</u>	<u>5,038,113</u>
11. NET ELECTRICAL POWER GENERATED (MWH) . . . .	<u>260,197</u>	<u>2,738,873</u>	<u>4,716,685</u>
12. REACTOR AVAILABILITY FACTOR (1) . . . . .	<u>67.2%</u>	<u>85.9%</u>	<u>87.1%</u>
13. UNIT AVAILABILITY FACTOR (2) . . . . .	<u>54.4%</u>	<u>81.8%</u>	<u>84.3%</u>
14. UNIT CAPACITY FACTOR (3) . . . . .	<u>45.6%</u>	<u>79.6%</u>	<u>82.2%</u>
15. FORCED OUTAGE RATE (4) . . . . .	<u>16.1%</u>	<u>12.6%</u>	<u>9.1%</u>

16. SHUTDOWNS SCHEDULED TO BEGIN IN NEXT 6 MONTHS (STATE TYPE, DATE, AND DURATION OF EACH): None

17. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: Not Applicable

18. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION): NOT APPLICABLE

(1) REACTOR AVAILABILITY FACTOR =  $\frac{\text{HOURS REACTOR WAS CRITICAL}}{\text{GROSS HOURS IN REPORTING PERIOD}} \times 100$

(2) UNIT AVAILABILITY FACTOR =  $\frac{\text{HOURS GENERATOR ON-LINE}}{\text{GROSS HOURS IN REPORTING PERIOD}} \times 100$

(3) UNIT CAPACITY FACTOR =  $\frac{\text{NET ELECTRICAL POWER GENERATED}}{\text{MDC (MWe - net)} \times \text{GROSS HOURS IN REPORTING PERIOD}} \times 100$

(4) FORCED OUTAGE RATE =  $\frac{\text{FORCED OUTAGE HOURS}}{\text{HOURS GENERATOR ON-LINE} + \text{FORCED OUTAGE HOURS}} \times 100$

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