

OPERATIONS SUMMARY  
MARCH 1989

The unit entered the month operating at 100% reactor power and producing approximately 880 MWe. The plant continued operating at 100% power throughout the month.

MAJOR SAFETY RELATED MAINTENANCE

During March, the following major maintenance activities were performed on safety-related equipment:

Instrument Air Dryer IA-Q-1

Instrument Air Dryer IA-Q-1 work was completed in March. A stainless steel inlet air manifold fabricated from bar stock was welded into the system. Portions of the inlet air piping and exhaust piping were also replaced with stainless steel. All welds were NDE inspected and the air dryer was returned to service.

Nuclear Service River Water Pump NR-P-1B

Nuclear Service River Water Pump NR-P-1B was repaired during March. The pump was taken out of service for overhaul because of high vibration. The motor was removed and the pump disassembled. Inspections revealed excessive clearances in the bearings. The pump was reassembled using new repair parts and a new bowl assembly. The motor was disassembled, cleaned and reassembled using new bearings. The pump and motor were then reinstalled, aligned, coupled and tested. All tests were satisfactory and NR-P-1B was returned to service.

Nuclear Service River Water Pump NS-P-1A

Nuclear Service Closed Cooling Water Pump NS-P-1A was removed from service in March to repair a mechanical seal leak. The pump was uncoupled, disassembled, cleaned, and inspected. Inspections revealed normal wear on the seal faces and the pump was reassembled using a new mechanical seal. The pump was aligned, coupled to the motor and test run. All tests were satisfactory and NS-P-1A was returned to service.

**UNIT SHUTDOWNS AND POWER REDUCTIONS**

50-289

DOCKET NO. TMI-1

UNIT NAME 3-31-89

DATE C.W. Smyth

COMPLETED BY (717) 948-8551

TELEPHONE

REPORT MONTH MARCH 1989

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	License Event Report #	System Code <sup>4</sup> & 6	Component Code <sup>5</sup> & 6	Cause & Corrective Action to Prevent Recurrence
						- NONE -			

- 1 F - Forced  
S - Scheduled
- 2 Reason:  
A-Equipment Failure (Explain)  
B-Maintenance of Test  
C-Refueling  
D-Regulatory Restriction  
E-Operator Training & License Examination  
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 Actually used Exhibits F & H NUREG 0161

OPERATING DATA REPORT

DOCKET NO. 50-289  
 DATE 3-31-89  
 COMPLETED BY C.W. Smyth  
 TELEPHONE (717) 948-8551

OPERATING STATUS

- 1. UNIT NAME: THREE MILE ISLAND UNIT 1
- 2. REPORTING PERIOD: MARCH, 1989.
- 3. LICENSED THERMAL POWER (MWT): 2568.
- 4. NAMEPLATE RATING (GROSS MWE): 871.
- 5. DESIGN ELECTRICAL RATING (NET MWE): 819.
- 6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE): 856.
- 7. MAXIMUM DEPENDABLE CAPACITY (NET MWE): 808.

NOTES

8. IF CHANGES OCCUR IN (ITEMS 3-7) SINCE LAST REPORT, GIVE REASONS:

9. POWER LEVEL TO WHICH RESTRICTED, IF ANY (NET MWE)

10. REASONS FOR RESTRICTIONS, IF ANY:

	THIS MONTH	YR-TO-DATE	CUMMULATIVE
11. HOURS IN REPORTING PERIOD	744.	2160.	127801.
12. NUMBER OF HOURS REACTOR WAS CRITICAL	744.0	2160.0	55441.4
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	1960.0
14. HOURS GENERATOR ON-LINE	744.0	2160.0	54442.0
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1905661.	5536403.	132895508.
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	662281.	1924471.	44598856.
18. NET ELECTRICAL ENERGY GENERATED (MWH)	626280.	1820445.	41790155.
19. UNIT SERVICE FACTOR	100.0	100.0	42.6
20. UNIT AVAILABILITY FACTOR	100.0	100.0	42.6
21. UNIT CAPACITY FACTOR (USING MDC NET)	104.2	104.3	41.8
22. UNIT CAPACITY FACTOR (USING DER NET)	102.8	102.9	39.9
23. UNIT FORCED OUTAGE RATE	0.0	0.0	52.6

24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH

25. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-289  
 UNIT TMI-1  
 DATE 3-31-89  
 COMPLETED BY C.W. Smyth  
 TELEPHONE (717) 948-8551

MONTH: MARCH

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	844.
2	845.
3	844.
4	844.
5	844.
6	844.
7	843.
8	842.
9	841.
10	844.
11	847.
12	846.
13	848.
14	843.
15	838.
16	843.

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
17	838.
18	833.
19	845.
20	847.
21	844.
22	848.
23	849.
24	845.
25	841.
26	840.
27	836.
28	826.
29	826.
30	840.
31	841.

REFUELING INFORMATION REQUEST

1. Name of Facility: Three Mile Island Nuclear Station, Unit 1
2. Scheduled date for next refueling shutdown: January 5, 1990 (8R)
3. Scheduled date for restart following refueling: March 1, 1990 (8R)
4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment? Yes

If answer is yes, in general, what will these be?

Basic Refueling Report.

If answer is no, has the reload fuel design and core configuration been reviewed by your Plant Safety Review Committee to determine whether any unreviewed safety questions are associated with the core reload (Ref. 10 CFR Section 50.59)?

If no such review has taken place, when is it scheduled?

5. Scheduled date(s) for submitting proposed licensing action and supporting information: November 1, 1989 (estimate).
6. Important licensing considerations associated with refueling, e.g. new or different fuel design or supplier, unreviewed design or performance analysis methods, significant changes in fuel design, new operating procedures: None
7. The number of fuel assemblies (a) in the core, and (b) in the spent fuel storage pool: (a) 177 (b) 360
8. The present licensed spent fuel pool storage capacity and the size of any increase in licensed storage capacity that has been requested or is planned, in number of fuel assemblies:

The present licensed capacity is 752. Preliminary planning to increase licensed capacity through fuel pool reracking is in process.

9. The projected date of the last refueling that can be discharged to the spent fuel pool assuming the present licensed capacity:

1991 is the last refueling discharge which allows full core off-load capacity (177 fuel assemblies).



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TELEX 84-2386  
Writer's Direct Dial Number:

April 17, 1989  
C311-89-2041

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

Dear Sir:

Three Mile Island Nuclear Station, Unit I (TMI-1)  
Operating License No. DPR-50  
Docket No. 50-289  
Monthly Operating Report  
March 1989

Enclosed are two copies of the March 1989 Monthly Operating Report for Three Mile Island Nuclear Station, Unit 1.

Sincerely,

H. D. Hukill  
Vice President & Director, TMI-1

HDH/SMO:spb

cc: W. Russell, USNRC  
F. Young, USNRC

Attachments