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Writer's Direct Dial Number:

June 15, 1990  
C311-90-2086

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  
May 1990

Enclosed are two copies of the May, 1990 Monthly Operating Report for Three Mile Island Nuclear Station, Unit 1.

Sincerely,

H. D. Hull

Vice President & Director, TMI-1

HDH/WGH:

cc: T. T. Martin, USNRC  
F. Young, USNRC  
Attachments

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## OPERATIONS SUMMARY

MAY 1990

The unit entered the month operating at  $\approx 96\%$  power, producing  $\approx 830$  MWe gross electrical generation. The unit operated with a  $\Delta TC$  of  $-4.5^\circ F$  which was input due to high OTSG level on the "B" side. Both trains of the HSPS Hi Level MFW Isolation were in defeat. The unit remained at  $\approx 96\%$  power throughout the remainder of the month.

### MAJOR SAFETY RELATED MAINTENANCE

During May, the following major safety related maintenance activities were performed:

#### Make-up System Valve MU-V-2A

The MU-V-2A motor failed during plant operation. A replacement motor from warehouse stock was prepared and a Reactor Building entry made to perform the change out. Post maintenance testing of the newly installed motor was completed satisfactorily. Inspection of the old motor identified for the cause of the failure to be a pinched wire which shorted to the casing.

# OPERATING DATA REPORT

DOCKET NO. 50-289  
 DATE 5-31-90  
 COMPLETED BY W.G. Heysek  
 TELEPHONE 717-948-8191

## OPERATING STATUS

	NOTES
1. UNIT NAME: THREE MILE ISLAND UNIT 1	
2. REPORTING PERIOD: MAY, 1990.	
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.	

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.	3623.	138024.
12. NUMBER OF HOURS REACTOR WAS CRITICAL	744.0	2028.6	64027.2
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	242.8	2245.6
14. HOURS GENERATOR ON-LINE	744.0	1986.6	62982.7
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1813830.	4604527.	154176421.
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	613317.	1568081.	51874750.
18. NET ELECTRICAL ENERGY GENERATED (MWH)	578457.	1455217.	48641706.
19. UNIT SERVICE FACTOR	100.0	54.8	45.6
20. UNIT AVAILABILITY FACTOR	100.0	54.8	45.6
21. UNIT CAPACITY FACTOR (USING MDC NET)	96.2	49.7	45.0
22. UNIT CAPACITY FACTOR (USING DER NET)	94.9	49.0	43.0
23. UNIT FORCED OUTAGE RATE	0.0	10.7	49.0

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 5-31-90  
COMPLETED BY W.G. Heysek  
TELEPHONE 717-948-8191

MONTH: MAY

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	779.
2	783.
3	786.
4	785.
5	781.
6	784.
7	782.
8	775.
9	773.
10	775.
11	781.
12	785.
13	777.
14	777.
15	775.
16	771.

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
17	766.
18	777.
19	774.
20	775.
21	779.
22	780.
23	778.
24	776.
25	775.
26	774.
27	777.
28	775.
29	776.
30	775.
31	776.

REFUELING INFORMATION REQUEST

1. Name of Facility: Three Mile Island Nuclear Station, Unit 1
2. Scheduled date for next refueling shutdown: October 4, 1991 (9R)
3. Scheduled date for restart following current refueling: NA
4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?  
If answer is yes, in general, what will these be?  
  
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)? No.  
  
If no such review has taken place, when is it scheduled? Completed.
5. Scheduled date(s) for submitting proposed licensing action and supporting information: None planned.
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) 441
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. 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).

50-289

BUCKET NO. TMT-1

UNIT NAME

DATE 5-31-90

COMPLETED BY W.G. Heysek

TELEPHONE 717-948-8191

UNIT SOLUTIONS AND POWER DEDUCTIONS

REPORT MONTH MAY 1990

No.	Date	Type	Duration (Hours)	Reason	Method of Shutting Down Reactor	License Event Report #	System Code & 6	Component Code & 6	Cause & Corrective Action to Prevent Recurrence
						- NONE -			

- 1 F Forced  
S Scheduled
- 2 Reason  
A Equipment Failure (Explain)  
B Maintenance or 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 License Event Report (LER) File (NUREG 0161)
- 5 Exhibit I - Same Source
- 6 Actually used Exhibits F & H NUREC 0161