GPU Nuclear

GPU Nuclear Corporation
Post Office Box 480
Route 441 South
Middletown, Pennsylvania 17057-0191
717 944-7621
TELEX 84-2386
Writer's Direct Dial Number:

(717) 948-8005

April 14, 1991
C311-91-2038

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

Gentlemen:

Subject: Three Mile Island Nuclear Station, Unit I (TMI-1)
Operating License No. DPR-50
Docket No. 50-289
Monthly Operating Report March 1991

Enclosed are two copies of the March, 1991 Monthly Operating Report for Three Mile Island Nuclear Station, Unit 1.

Sincerely,

T. G. Broughton
Vice President & Director, TMI-1

WGH:

Attachments

cc: Administrator, Region I
TMI Senior Resident Inspector

IE24
1/1

OPERATIONS SUMMARY
MARCH 1991

The unit entered the month operating at ~92% power producing ~800 MWe gross electrical generation. The A and C Reactor Coolant Pump Seal Leakoff flows continued to remain within the vendor established limits. On March 1, 1991 the unit generated electricity for greater than 335 days exceeding the previous record for continuous electrical generation. The twelfth anniversary of tho TMI Unit 2 accident on March 28, was observed by three protestors at the site's North Gate. The protestors left the scene upon arrival of the State Police. The unit completed the month operating at ~93% power producing ~810 MWe gross electrical generation. Power production continues to be limited by high OTSG level on the "B" side.

MAJOR SAFETY RELATED MAINTENANCE

The Nuclear Service River Water Strainer NR-S-1B was removed from service in March to repair oil leaks in the strainer drive unit. The drive unit and motor were removed from the strainer, disassembled and inspected. The motor pinion gear was found cracked at the setscrew hole and the motor shaft was damaged. New gaskets, oil seal, an oil sightglass with a vented cap and motor were used during he reassembly. The cracked pinion gear was evaluated by Plant Engineering and found acceptable for reinstallation until a spare can be procured. The strainer drive unit was reinstalled on the strainer, filled with oil and placed in an "Emergency Use Only" status until a new motor pinion gear is obtained and installed.

OPERATING DATA REPORT

DOCKET NO. 50-289
DATE April 14, 1991
COMPLETED BY W. G. Heysek
TELEPHONE (717) 948-8191

OPERATING STATUS

		NOTES
1. UNIT NAME:	THREE MILE ISLAND UNIT 1	
2. REPORTING PERIOD:	MARCH ,1991.	
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.	2160.	145321.
12. NUMBER OF HOURS REACTOR WAS CRITICAL	744.0	2160.0	71324.2
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	2245.6
14. HOURS GENERATOR ON-LINE	744.0	2160.0	70279.7
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1764524.	5135178.	171605951.
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	597740.	1747458.	57708362.
18. NET ELECTRICAL ENERGY GENERATED (MWH)	562420.	1644597.	54134017.
19. UNIT SERVICE FACTOR	100.0	100.0	48.4
20. UNIT AVAILABILITY FACTOR	100.0	100.0	48.4
21. UNIT CAPACITY FACTOR (USING MDC NET)	93.6	94.2	47.4
22. UNIT CAPACITY FACTOR (USING DER NET)	92.3	93.0	45.5
23. UNIT FORCED OUTAGE RATE	0.0	0.0	46.3

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 April 14, 1991
COMPLETED BY W. G. Heysek
TELEPHONE (717) 948-8191

MONTH: MARCH

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	758.	17	761.
2	748.	18	761.
3	747.	19	761.
4	750.	20	764.
5	754.	21	765.
6	749.	22	764.
7	746.	23	764.
8	750.	24	760.
9	753.	25	761.
10	746.	26	762.
11	747.	27	759.
12	740.	28	750.
13	747.	29	759.
14	762.	30	765.
15	761.	31	759.
16	762.		

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH March 1991

DOCKET NO. 50-289
UNIT NAME TMI-1
DATE April 14, 1991
COMPLETED BY W. G. Heysek
TELEPHONE (717) 948-8191

No.	Date	Type[1]	Duration (Hours)	Reason[2]	Method of Shutting Down Reactor[3]	Licensee Event Report#	System Code 4 & 6	Component Code 5 & 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 & Licensing 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 1 same source

6 Actually used exhibits F & H NUREG 0161

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? **No.**

   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? **6/1/91.**

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:

   GPU Nuclear plans to install four Westinghouse Lead Test Assemblies during the reload of the TMI-1 core for cycle 9 operation. Westinghouse fuel technology will be utilized to the extent possible.

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 progress.

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).