

October 7, 1977
GOL 1377

AVERAGE DAILY UNIT POWER LOG

DOCKET NO. 50-289

UNIT TMI-1

DATE October 3, 1977

COMPLETED BY W. E. Potts

TEL. NO. 215-929-3601, Ext. 114

MONTH September

| <u>DAY</u> | <u>AVERAGE DAILY POWER LEVEL(MWe-Net)</u> | <u>DAY</u> | <u>AVERAGE DAILY POWER LEVEL(MWe-Net)</u> |
|------------|---|------------|---|
| 1 | <u>755</u> | 21 | <u>-21</u> |
| 2 | <u>750</u> | 22 | <u>-19</u> |
| 3 | <u>754</u> | 23 | <u>-23</u> |
| 4 | <u>759</u> | 24 | <u>-40</u> |
| 5 | <u>753</u> | 25 | <u>-43</u> |
| 6 | <u>750</u> | 26 | <u>-44</u> |
| 7 | <u>759</u> | 27 | <u>189</u> |
| 8 | <u>760</u> | 28 | <u>699</u> |
| 9 | <u>760</u> | 29 | <u>783</u> |
| 10 | <u>755</u> | 30 | <u>780</u> |
| 11 | <u>762</u> | 31 | <u>-</u> |
| 12 | <u>767</u> | | |
| 13 | <u>758</u> | | |
| 14 | <u>733</u> | | |
| 15 | <u>275</u> | | |
| 16 | <u>137</u> | | |
| 17 | <u>-15</u> | | |
| 18 | <u>-17</u> | | |
| 19 | <u>-23</u> | | |
| 20 | <u>-23</u> | | |

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7910810 681

UNIT SHUTDOWNS AND POWER REDUCTIONS

SUMMARY:

Unit I ran at 100% power for the first 15 days of the month. On 9/15/77 at 2300 power was reduced to 50% for main condenser tube cleaning. On 9/16/77 at 14:15 high conductivity was detected in the secondary side of the steam generator and the unit was shut down. On 9/18/77 at 1200 an R.C. pump motor malfunctioned thus extending the outage. On 9/24/77 at 114 while starting up the main turbine the turbine tripped due to a generator ground problem. On 9/27/77 the unit was placed back on line and ran at 100% power for the remainder of the month.

DOCKET NO. 50-20

UNIT NAME TMI-1

DATE October 3, 1977

COMPLETED BY W. E. Potts

TEL. NO. 215-

REPORT MONTH September

| O. | DATE | TYPE F-FORCED S-SCHEDULED | DURATION (HOURS) | REASON (1) | METHOD OF SHUTTING DOWN THE REACTOR OR REDUCING POWER (2) | COMMENTS |
|----|---------|---------------------------------|---------------------|------------|--|---|
| | 9/15/77 | S | | B | 1 | Reduced power to 50% for main condenser tube cleaning. |
| | 9/16/77 | F | 261.0 | G, A | 1 | High conductivity in secondary side of steam generator was the initial reason for outage. The outage was extended to a R.C. pump motor malfunction. The outage was further extended due to a main turbine trip resulting in a generator ground problem. |

- (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 (EXPLAIN)

(2)

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1. REPORTING PERIOD: 11, 77, 0001 THROUGH 24, 77, 0930
- GROSS HOURS IN REPORTING PERIOD: 720
2. CURRENTLY AUTHORIZED POWER LEVEL Mwt 2535 MAX. DEPEND. CAPACITY(MWe-Net) 792
3. DESIGN ELECTRICAL RATING (MWe-net) 819
4. POWER LEVEL TO WHICH RESTRICTED (IF ANY): N/A
5. REASONS FOR RESTRICTIONS (IF ANY):

| | THIS MONTH | YR-TO-DATE | CUMULATIVE TO DATE |
|--|------------------------------------|-----------------|-----------------------|
| 5. NUMBER OF HOURS REACTOR WAS CRITICAL . . . | <u>513.2</u> | <u>5002.5</u> | <u>20854.3</u> |
| 6. REACTOR RESERVE SHUTDOWN HOURS | <u>87.3</u> | <u>230</u> | <u>838.5</u> |
| 7. HOURS GENERATOR ON-LINE | <u>459.0</u> | <u>4888.4</u> | <u>20396.8</u> |
| 8. UNIT RESERVE SHUTDOWN HOURS | <u>0</u> | <u>0</u> | <u>0</u> |
| 9. GROSS THERMAL ENERGY GENERATED (MWH) . . | <u>1097554</u> | <u>12122978</u> | <u>49880853</u> |
| 10. GROSS ELECTRICAL ENERGY GENERATED (MWH) . . | <u>344443</u> | <u>3972640</u> | <u>16645427</u> |
| 11. NET ELECTRICAL ENERGY GENERAGED (MWH) . . . | <u>316088</u> | <u>3720878</u> | <u>15575838</u> |
| 12. REACTOR SERVICE FACTOR | <u>71.3%</u> | <u>76.4%</u> | <u>77.2%</u> |
| 13. REACTOR AVAILABILITY FACTOR | <u>83.4%</u> | <u>79.9%</u> | <u>80.3%</u> |
| 14. UNIT SERVICE FACTOR | <u>63.8%</u> | <u>74.6%</u> | <u>75.5%</u> |
| 15. UNIT AVAILABILITY FACTOR | <u>63.8%</u> | <u>74.6%</u> | <u>75.5%</u> |
| 16. UNIT CAPACITY FACTOR (USING MDC) | <u>55.4%</u> | <u>71.7%</u> | <u>72.8%</u> |
| 17. UNIT CAPACITY FACTOR (USING DESIGN MWe-net) | <u>53.6%</u> | <u>69.4%</u> | <u>70.4%</u> |
| 18. FORCED OUTAGE RATE | <u>36.3%</u> | <u>5.1%</u> | <u>6.1%</u> |
| 19. SHUTDOWNS SCHEDULED TO BEGIN IN NEXT 6 MONTHS (STATE TYPE, DATE AND DURATION OF EACH): | Refueling, March 18, 1978, 6 weeks | | |
| 20. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: | | | |
| 21. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION): | NOT APPLICABLE | | |

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