



Entergy Nuclear Generation Company  
Pilgrim Nuclear Power Station  
600 Rocky Hill Road  
Plymouth, MA 02360

**J. F. Alexander**  
Director  
Nuclear Assessment

Tech. Spec. 5.6.4

March 14, 2000  
ENGCLtr. 2.00.022

U.S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, DC 20555

Docket No. 50.293  
License No. DPR-35

**February 2000 Monthly Operating Report**

In accordance with Pilgrim Nuclear Power Station Technical Specification 5.6.4, the operational status summary for Pilgrim Nuclear Power Station is provided in the attachment for your information and planning. Should you have questions or comments concerning this report, please contact Robert Cannon at (508) 830-8321.

Sincerely,

A handwritten signature in black ink, appearing to be "J.F. Alexander".

J.F. Alexander

RLC/vc

Attachment: February 2000 Monthly Operating Report

cc: Mr. Hubert Miller  
Regional Administrator, Region I  
U.S. Nuclear Regulatory Commission  
475 Allendale Road  
King of Prussia, PA 19406

Senior Resident Inspector

IE24

**OPERATING DATA REPORT**

DOCKET NO. 50-293  
NAME: Pilgrim  
COMPLETED BY: R.L. Cannon  
TELEPHONE: (508) 830-8321  
REPORT MONTH: February 2000

**OPERATING STATUS****NOTES**

- |  |               |
|--|---------------|
| 1. Unit Name   | Pilgrim I     |
| 2. Reporting Period  | February 2000 |
| 3. Licensed Thermal Power (MWt)  | 1998          |
| 4. Nameplate Rating (Gross MWe)  | 678           |
| 5. Design Electrical Rating (Net MWe)  | 655           |
| 6. Maximum Dependable Capacity (Gross MWe)   | 696           |
| 7. Maximum Dependable Capacity (Net MWe)   | 670           |
| 8. If Changes Occur in Capacity Ratings (Item Numbers 3 through 7) Since Last Report, Give Reasons:<br><u>No Changes</u> |               |
| 9. Power Level To Which Restricted, If Any (Net MWe): <u>None</u>  |               |
| 10. Reasons For Restrictions, If Any: N/A  |               |

	<u>THIS MONTH</u>	<u>YR-TO-DATE</u>	<u>CUMULATIVE</u>
11. Hours in Reporting Period	696.0	1,440.0	238,656.0
12. Hours Reactor Critical	696.0	1,440.0	159,305.8
13. Hours Reactor Reserve Shutdown	0.0	0.0	0.0
14. Hours Generator On-Line	640.3	1,384.3	154,298.2
15. Hours Unit Reserve Shutdown	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	1,248,373.7	2,722,899.7	278,988,981.7
17. Gross Electrical Energy Generated (MWH)	428,560.0	946,210.0	94,806,604.0
18. Net Electrical Energy Generated (MWH)	412,526.5	910,911.3	91,161,046.3
19. Unit Service Factor	92.0	96.1	64.7
20. Unit Availability Factor	92.0	96.1	64.7
21. Unit Capacity Factor (Using MDC Net)	88.5	94.4	57.0
22. Unit Capacity Factor (Using DER Net)	90.5	96.6	58.3
23. Unit Forced Outage Rate	8.0	3.9	10.5
24. Shutdowns, Scheduled Outages Over Next 6 Months (Type,Date,Duration) <u>None</u>			
25. If Shutdown at End of Report Period, Estimated Date of Start-Up: <u>Unit Operating</u>			

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**OPERATION SUMMARY**

The plant entered the reporting period at approximately 100 percent Core Thermal Power (CTP). On February 22, 2000, at 1550 hours a controlled power reduction commenced to allow the main electrical generator to be taken off-line to investigate an abnormal noise emanating from the "B" phase of the isophase system that connects the main generator to the main transformer. At approximately 2203 hours on February 22, 2000, the main generator was taken off-line with reactor power at approximately 15 percent CTP. The abnormal noise (electrical arcing) was isolated and the problem corrected. On February 25, 2000, at 0540 hours the main electrical generator was returned to service and synchronized to the grid. On February 25, 2000, at 0807 hours an increase in reactor power to 100 percent CTP commenced. On February 27, 2000, at 0450 hours 100 percent CTP was achieved and maintained until February 27, 2000, at 1630 hours when reactor power was reduced approximately two percent to conduct a control rod pattern change. At 1700 hours on February 27, 2000, reactor power was returned to 100 percent CTP and was maintained until February 28, 2000, at 1205 hours when reactor power was incrementally decreased to 72.5 percent CTP for a rod swap. New operator candidate reactivity manipulation training was conducted concurrently with the down power evolution. At 1850 hours on February 28, 2000, reactor power was restored to 100 percent CTP where it was maintained through the end of the reporting period.

**UNIT SHUTDOWNS**

NO.	DATE	TYPE <u>1</u>	DURATION (HOURS)	REASON <u>2</u>	METHOD OF SHUTTING DOWN REACTOR <u>3</u>	CAUSE/ CORRECTIVE ACTION/COMMENTS

No Unit shutdowns occurred during this reporting period.

- |                             |  |   |
|-----------------------------|--|---|
| <u>1</u>                    | <u>2</u>   | <u>3</u>  |
| F - Forced<br>S - Scheduled | A - Equip Failure<br>B - Main or Test<br>C - Refueling<br>D - Regulatory Restriction<br>E - Operator Training &<br>License Examination<br>F - Admin<br>G - Operator Error<br>H - Other | 1 - Manual<br>2 - Manual Scram<br>3 - Auto Scram<br>4 - Continuation<br>5 - Other |