

OPERATING DATA REPORT

DOCKET NO. 50-293
 DATE 08/12/83
 COMPLETED BY W. J. McCann
 TELEPHONE 617-746-7900

OPERATING STATUS

1. Unit Name: Pilgrim 1
2. Reporting Period: July, 1983
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): 690.
7. Maximum Dependable Capacity (Net MWe): 670.
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:

Notes

None

9. Power Level To Which Restricted, If Any (Net MWe): None
10. Reasons For Restrictions, If Any: N/A

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	744.0	5087.0	93287.0
12. Number Of Hours Reactor Was Critical	667.1	4776.0	66721.3
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator On-Line	637.4	4701.0	64580.2
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	1217640.0	9052224.0	111765816.0
17. Gross Electrical Energy Generated (MWH)	417210.0	3135200.0	37462024.0
18. Net Electrical Energy Generated (MWH)	401275.0	3016495.0	35998006.0
19. Unit Service Factor	85.7	92.4	69.2
20. Unit Availability Factor	85.7	92.4	69.2
21. Unit Capacity Factor (Using MDC Net)	80.5	88.5	57.6
22. Unit Capacity Factor (Using DER Net)	82.3	90.5	58.9
23. Unit Forced Outage Rate	14.3	5.7	9.5

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):

Refuel outage to commence January, 1984.

25. If Shut Down At End Of Report Period, Estimated Date of Startup: Startup commenced on August 2, 1983.

26. Units In Test Status (Prior to Commercial Operation):

Forecast

Achieved

INITIAL CRITICALITY
 INITIAL ELECTRICITY
 COMMERCIAL OPERATION

TEZS
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UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH JULY, 1983

DOCKET NO. 50-293
 UNIT NAME Pilgrim 1
 DATE 08/12/83
 COMPLETED BY W. J. McCann
 TELEPHONE 617-746-7900

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	Licensee Event Report #	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
10	83/06/27	F	56.5	B	2	N/A	CD	VALVEX	MSIV stem packing found leaking in drywell. Repacked stem.
11	83/07/29	F	50.1	B	3	83-44/3L-0	CE	VALVEX	RCIC MO-1301-16 valve would not close. Drywell entry required to fix motor operator.

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 Licensee
 Event Report (LER) File (NUREG-
 0161)

⁵
 Exhibit I - Same Source

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-293
UNIT Pilgrim 1
DATE 08/12/83
COMPLETED BY W. J. McCann
TELEPHONE 617-746-7900

MONTH JULY, 1983

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>0.</u>	17	<u>558.</u>
2	<u>0.</u>	18	<u>657.</u>
3	<u>199.</u>	19	<u>656.</u>
4	<u>604.</u>	20	<u>654.</u>
5	<u>661.</u>	21	<u>649.</u>
6	<u>658.</u>	22	<u>649.</u>
7	<u>652.</u>	23	<u>644.</u>
8	<u>612.</u>	24	<u>643.</u>
9	<u>595.</u>	25	<u>644.</u>
10	<u>660.</u>	26	<u>638.</u>
11	<u>661.</u>	27	<u>634.</u>
12	<u>661.</u>	28	<u>633.</u>
13	<u>659.</u>	29	<u>480.</u>
14	<u>658.</u>	30	<u>0.</u>
15	<u>652.</u>	31	<u>0.</u>
16	<u>649.</u>		

INSTRUCTIONS

On this format, list the average daily unit power level in MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt.

REFUELING INFORMATION

The following refueling information is included in the Monthly Report as requested in an NRC letter to BECo dated January 18, 1978:

For your convenience, the information supplied has been enumerated so that each number corresponds to equivalent notation utilized in the request.

1. The name of this facility is Pilgrim Nuclear Power Station, Docket Number 50-293.
2. Scheduled date for next Refueling Shutdown: January, 1984
3. Scheduled date for restart following refueling: April, 1984
- 4.
5. Due to their similarity, requests 4, 5, & 6 are responded to collectively:
6. The fuel, which had been loaded during the 1981 scheduled refueling outage, is of the same P8x8R design, as loaded the previous outage consisting of 112 P8DRB282 assemblies and 60 P8DRB265 assemblies.
7. (a) There are 580 fuel assemblies in the core.
(b) There are 936 fuel assemblies in the spent fuel pool.
8. (a) The station is presently licensed to store 2320 spent fuel assemblies. The actual spent fuel storage capacity is 1770 fuel assemblies at present.
(b) The planned spent fuel storage capacity is 2320 fuel assemblies.
9. With present spent fuel in storage, the spent fuel pool now has the capacity to accommodate an additional 834 fuel assemblies.

BOSTON EDISON COMPANY
PILGRIM NUCLEAR POWER STATION
DOCKET NO. 50-293

Operational Summary for July, 1983

The month started with a continuation of the drywell leakage repair outage which started on June 27, 1983. During the reactor startup on July 2, HPCI was declared inoperable when the turbine stop valve failed timing tests (Ref: LER 83-039/03L-0). Following repairs HPCI was made operable and the unit was placed on line.

At 0831 on July 3rd, when control rod 10-31 was scram tested, the rod could not be withdrawn. The symmetric rods were inserted and a power increase to the highest achievable load continued.

At 2125 on July 3rd, while performing surveillance tests on core spray valve 1400-25A, the valve would not close. The "A" core spray loop was made inoperable to make repairs to the valve. (Ref: LER 83-40/03L-0) A rod pattern change on July 4th required a short power reduction. The "A" core spray was again operable on July 7th. A condenser backwash was done on July 8th and the unit was returned to full load on July 9th.

RCIC was made inoperable on July 15th for a short time to allow a temporary modification to be made. On July 16th, a power supply for the "E" intermediate range monitor required repairs which required the "E" IRM to be made inoperable and put into bypass. A condenser backwash and control rod exercises on July 17th required a slight power reduction for a short period. On July 22nd, the "A" off-gas radiation monitor was found to be out of calibration (Reference: LER 83-43/03L-0). RCIC was made inoperable when the MO-1301-16 inboard isolation valve would not close during surveillance testing. The reactor was shut down on July 29 to repair the valve's operator. The unit remained off-line for the remainder of the month.

A short term power reduction was made each Sunday of the month for control rod exercises.

SAFETY/RELIEF VALVE CHALLENGES

MONTH OF JULY, 1983

REQUIREMENT: T.A.P. II.K.3.3

There were no safety/relief valve challenges during the month of July, 1983.

PILGRIM NUCLEAR POWER STATION

Month JULY, 1983

MAJOR SAFETY RELATED MAINTENANCE

page 1 of 2

SYSTEM	COMPONENT	MALFUNCTION	CAUSE	MAINTENANCE	CORRECTIVE ACTION TO PREVENT RECURRENCE	ASSOCIATED LER
Main Steam	B MSIV Inbd. 203-1C	Packing Leak Loose stem nut	Age Wear	Replace Packing Tightened	None: Routine maintenance None: Routine maintenance	
Reactor Recirc.	MO-202-4B MO-202-5A	Body to bonnet flange leak Body to bonnet flange leak	gasket wear gasket wear	Seal welded Seal welded	None: Routine maintenance None: Routine maintenance	
CRD	CR 10-31	CV127 leaking	Worn part	Replace parts	None: Routine maintenance	
RCIC	A01301-71 P206 MO1301-16	Steam leak Change oil in RCIC turbine Operator would not move valve.	gasket wear Age Broken, worn gear - de- fective Belleville spring pack	Furmanite Drained, cleaned and refilled oil. Rebuild motor operator.	MR written for permanent repair. None: Routine maintenance Replaced Belleville spring pack.	LER to be issued
Offgas	1705-3A	Out of calibration.	Unknown	Re-calibrated per surveillance.	Will perform monthly surveil- lance per MSTP	LER to be issued.
Core Spray	MO1400-25A	Inop.	Loose stem locking nut	Staked stem lock- ing nut.	Stake nut.	LER 83-040/03L-0
HPCI	'B' battery ground HPCI speed potentiometer P-205 Turbine stop valve X 203	Ground Blown fuse in controller. Oil leak Would not open fast enough Water in oil	Moisture Unknown Loose bolts Plugged orifice Leak	Repair steam leaks. Replaced fuse, ran HPCI per pro- cedure. Tightened bolts Replace orifice gasket Replace oil	None: Routine maintenance None: Routine maintenance None: Routine maintenance None: Routine maintenance None: Routine maintenance	LER 83-039/03-0

MAJOR SAFETY RELATED MAINTENANCE

page 2 of 2

SYSTEM	COMPONENT	MALFUNCTION	CAUSE	MAINTENANCE	CORRECTIVE ACTION TO PREVENT RECURRENCE	ASSOCIATED LER
Neutron Monitoring	IRM E	Spiking high	Moisture in connector.	Took connector apart, cleaned and dried out.	Dried connector, will check during Outage (84).	
	IRM A	Down-scale	Bad de- tector	Replace detector Cleaned connect- ors, retested	Will recheck IRM during refuel outage (84).	
	904 Annunci- ator	Failed power supply.	Bad power supply.	Replaced power supply.	None: Routine maintenance	
Contain- ment	Drywell door	Bent shaft	Wear	Straightened shaft	Future overhaul scheduled	
	Reactor truck- lock door (inner)	Will not close	Worn parts	Replaced two (2) hinges and one roller	None: Routine maintenance	
	Drywell doors	Will not close	Worn parts	Replaced cam follower and tightened bolts.	None: Routine maintenance Future overhaul scheduled.	

BOSTON EDISON COMPANY
800 BOYLSTON STREET
BOSTON, MASSACHUSETTS 02199

WILLIAM D. HARRINGTON
SENIOR VICE PRESIDENT
NUCLEAR

August 12, 1983

BECO Ltr. #83-219

Director,
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Attn: Document Control Desk

Docket No. 50-293
License DPR-35

Subject: July, 1983 Monthly Report

Dear Sir:

In accordance with PNPS Technical Specification 6.9.A.2, a copy of the Operational Status Summary for Pilgrim Nuclear Power Station is attached for your information and planning.

Respectfully submitted,

WD Harrington
William D. Harrington

WDH:em

cc: Regional Administrator, Region 1
U. S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, PA 19406

Standard BECO Monthly Report Distribution

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