

OPERATING DATA REPORT

DOCKET NO. 50-336  
 DATE 6/8/88  
 COMPLETED BY G. Neron  
 TELEPHONE (203) 447-1791  
Extension 4417

OPERATING STATUS

1. Unit Name: <u>Millstone Unit 2</u> 2. Reporting Period: <u>May 1988</u> 3. Licensed Thermal Power (Mwt): <u>2700</u> 4. Nameplate Rating (Gross MWe): <u>909</u> 5. Design Electrical Rating (Net MWe): <u>870</u> 6. Maximum Dependable Capacity (Gross MWe): <u>888.75</u> 7. Maximum Dependable Capacity (Net MWe): <u>857.25</u> 8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons: <u>N/A</u>	Notes: Items 21 and 22 cumulative are weighted averages. Unit operated at 2560 MW thermal prior to its uprating to the current 2700 MWT power level.
---	--

9. Power Level To Which Restricted, If Any (Net MWe): N/A  
 10. Reasons For Restrictions, If Any: N/A

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	744	3,647	108,983
12. Number Of Hours Reactor Was Critical	395.1	2,028.8	79,409.1
13. Reactor Reserve Shutdown Hours	0	0	2,205.5
14. Hours Generator On-Line	364.5	1,903.5	75,156.5
15. Unit Reserve Shutdown Hours	0	0	468.2
16. Gross Thermal Energy Generated (MWH)	956,578	4,897,213	209,459,475
17. Gross Elec. Energy Generated (MWH)	314,784.0	1,612,782.5	62,484,361.5
18. Net Electrical Energy Generated (MWH)	299,836.0	1,540,165.5	59,916,703.5
19. Unit Service Factor	49.0	52.2	69.0
20. Unit Availability Factor	49.0	52.2	69.4
21. Unit Capacity Factor (Using MDC Net)	47.0	49.3	64.8
22. Unit Capacity Factor (Using DER Net)	46.3	48.5	63.8
23. Unit Forced Outage Rate	51.0	21.4	15.3
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): <u>N/A</u>			

25. If Shut Down At End Of Report Period, Estimated Date of Startup: N/A  
 26. Units In Test Status (Prior to Commercial Operation): Forecast Achieved

INITIAL CRITICALITY	<u>N/A</u>	<u>N/A</u>
INITIAL ELECTRICITY	<u>N/A</u>	<u>N/A</u>
COMMERCIAL OPERATION	<u>N/A</u>	<u>N/A</u>

JER  
1/1

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-336

UNIT Millstone 2

DATE 6/8/88

COMPLETED BY G. Neron

TELEPHONE (203) 447-1791  
Extension 4417

MONTH May 1988

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>865</u>	17	<u>0</u>
2	<u>864</u>	18	<u>0</u>
3	<u>865</u>	19	<u>0</u>
4	<u>865</u>	20	<u>0</u>
5	<u>866</u>	21	<u>0</u>
6	<u>812</u>	22	<u>5</u>
7	<u>0</u>	23	<u>630</u>
8	<u>0</u>	24	<u>841</u>
9	<u>0</u>	25	<u>860</u>
10	<u>0</u>	26	<u>831</u>
11	<u>0</u>	27	<u>862</u>
12	<u>0</u>	28	<u>863</u>
13	<u>0</u>	29	<u>864</u>
14	<u>0</u>	30	<u>864</u>
15	<u>0</u>	31	<u>864</u>
16	<u>0</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.

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-336  
 UNIT NAME Millstone 2  
 DATE 6/8/88  
 COMPLETED BY G. Neron  
 TELEPHONE (203) 447-1791  
Extension 4417

REPORT MONTH MAY 1988

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
-----	------	-------------------	---------------------	---------------------	--	-------------------------------	-----------------------------	--------------------------------	---

88-02	050788	S	379.5	B	1	N/A	AB	SEAL	Initiated reactor shutdown from 100% power for a planned maintenance outage to investigate a reactor coolant system leak - leak rate was less than amount specified in Technical Specifications; Visual
-------	--------	---	-------	---	---	-----	----	------	---

inspections of the reactor coolant system revealed a leak in the proximity of the reactor vessel flange region; Removal of the reactor vessel head revealed the failure of the two (2) reactor vessel head "O"-rings; The two (2) failed "O"-rings were replaced; Reactor criticality was achieved on 5/21/88 and the Unit returned to service on 5/22/88.

<p><sup>1</sup></p> <p>F: Forced S: Scheduled</p>	<p><sup>2</sup></p> <p>Reason: A-Equipment Failure (Explain) B-Maintenance or Test C-Refueling D-Regulatory Restriction E-Operator Training &amp; License Examination F-Administrative G-Operational Error (Explain) H-Other (Explain)</p>	<p><sup>3</sup></p> <p>Method: 1-Manual 2-Manual Scram 3-Automatic Scram 4-Continued from previous month 5-Power Reduction (Duration = 0) 6-Other (Explain)</p>	<p><sup>4</sup></p> <p>Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161)</p> <p><sup>5</sup></p> <p>Exhibit 1 - Same Source</p>
---	--	---	---

REFUELING INFORMATION REQUEST

1. Name of facility: Millstone 2

2. Scheduled date for next refueling shutdown: February, 1989

3. Schedule date for restart following refueling: N/A

4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?

Technical Specification changes will be necessary resulting from the change in fuel and safety analysis supplier for cycle 10 operation.

5. Scheduled date(s) for submitting licensing action and supporting information:

The projected date is November, 1988

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:

Cycle 10 will be unique in that it will be the first cycle where the fuel and safety analysis will be supplied by Advanced Nuclear Fuels for Millstone Unit 2

7. The number of fuel assemblies (a) in the core and (b) in the spent fuel storage pool:

(a) In Core: (a) 217                      (b) 580

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:

Currently 1277

9. The projected date of the last refueling that can be discharged to the spent fuel pool assuming the present licensed capacity:

1998, Core Full, Spent Fuel Pool Full  
2009, Spent Fuel Pool, Full core off load capacity is reached - On  
March 31, 1988, License Amendment #128 was issued to Millstone Unit 2  
which allows the full scale storage of consolidated fuel in the Spent  
Fuel Pool.

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-336  
 UNIT NAME Millstone 2  
 DATE 05-06-88  
 COMPLETED BY G. Neron  
 TELEPHONE (203) 447-1791  
Extension 4417

REPORT MONTH APRIL 1988

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
88-01	040888	S	138.8*	B	1	88-08	AA,CD	CL,CCL	Initiated reactor power reduction from 100% power for planned maintenance outage; CEA #22 dropped and power was reduced to ~70%; Continued reactor shutdown - unable to recover the dropped CEA; CEA #4 also dropped before reactor

was sub-critical; The dropping of CEA's #4 and #22 was determined to have been caused by major loss of upper gripper coil resistance due to overheating; In addition, a high resistance of the CEA #5 upper gripper coil was found, and was determined to have been caused by a loose coil stack connection; Overheating was caused by the reduction of the CEDM Cooler efficiency due to boron clogging of the fan intakes; New CEDM Coil Stacks were installed for CEA's #4, #5, and #22; The CEDM Cooler intakes were cleaned; Determination of the boron source is still under investigation. See LER.

- |  |   |  |  |
|--|---|--|--|
| <p>1</p> <p>F: Forced<br/>S: Scheduled</p> | <p>2</p> <p>Reason:<br/>A-Equipment Failure (Explain)<br/>B-Maintenance or Test<br/>C-Refueling<br/>D-Regulatory Restriction<br/>E-Operator Training &amp; License Examination<br/>F-Administrative<br/>G-Operational Error (Explain)<br/>H-Other (Explain)</p> | <p>3</p> <p>Method:<br/>1-Manual<br/>2-Manual Scram<br/>3-Automatic Scram<br/>4-Continued from previous month<br/>5-Power Reduction (Duration = 0)<br/>6-Other (Explain)</p> | <p>4</p> <p>Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161)</p> <p>5<br/>Exhibit 1 - Same Source</p> |
|--|---|--|--|

\* Corrected duration

**NORTHEAST UTILITIES**



THE CONNECTICUT LIGHT AND POWER COMPANY  
WESTERN MASSACHUSETTS ELECTRIC COMPANY  
HOLYOKE WATER POWER COMPANY  
NORTHEAST UTILITIES SERVICE COMPANY  
NORTHEAST NUCLEAR ENERGY COMPANY

General Offices • Selden Street, Berlin, Connecticut

P.O. BOX 270  
HARTFORD, CONNECTICUT 06141-0270  
(203) 665-5000

June 9, 1988  
MP-11929

Re: 10CFR50.71(a)

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

Reference: Facility Operating License No. DPR-65  
Docket No. 50-336

Dear Sir:

This letter is forwarded to provide the report of operating and shutdown experience relating to Millstone Unit 2 Monthly Operating Report 88-05 in accordance with Appendix A Technical Specifications, Section 6.9.1.6. One additional copy of the report is enclosed. Also attached is a revision for the April 1988 Unit Shutdown and Power Reductions sheet.

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY

Stephen E. Scace  
Station Superintendent  
Millstone Nuclear Power Station

SES/GN:faj

cc: W.T. Russell, Region I Administrator  
W.J. Raymond, Senior Resident Inspector, Millstone Unit Nos. 1, 2 & 3

IE24  
11