

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-336

UNIT Millstone 2

DATE 8/14/85

COMPLETED BY G. Neron

TELEPHONE (203) 447-1791
(Extension 4417)

MONTH July 1985

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	0	17	0
2	0	18	0
3	0	19	0
4	46	20	91
5	211	21	451
6	385	22	792
7	452	23	852
8	787	24	848
9	817	25	849
10	818	26	624
11	826	27	698
12	854	28	853
13	847	29	853
14	848	30	853
15	542	31	853
16	0		

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.

OPERATING DATA REPORT

DOCKET NO. 50-336
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TELEPHONE (203) 447-1791
Extension 4417

OPERATING STATUS

- | | |
|--|--|
| <ol style="list-style-type: none"> 1. Unit Name: <u>Millstone Unit 2</u> 2. Reporting Period: <u>July 1985</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>866.25</u> 7. Maximum Dependable Capacity (Net MWe): <u>835.25</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 MW thermal
power level. |
|--|--|

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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	5087	84143
12. Number Of Hours Reactor Was Critical	660.4	1775.3	59852.3
13. Reactor Reserve Shutdown Hours	0	0	2205.5
14. Hours Generator On-Line	546.9	1656.7	56049.7
15. Unit Reserve Shutdown Hours	0	0	468.2
16. Gross Thermal Energy Generated (MWH)	1247903	4143006	141827463
17. Gross Elec. Energy Generated (MWH)	402000	1347800	46029479
18. Net Electrical Energy Generated (MWH)	380202	1276029	44099552
19. Unit Service Factor	73.5	32.6	66.6
20. Unit Availability Factor	73.5	32.6	67.2
21. Unit Capacity Factor (Using MDC Net)	61.2	30.0	62.8
22. Unit Capacity Factor (Using DER Net)	58.7	28.8	61.9
23. Unit Forced Outage Rate	17.3	6.5	16.8
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): <u>N/A</u>			

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

INITIAL CRITICALITY
INITIAL ELECTRICITY
COMMERCIAL OPERATION

<u>N/A</u>	<u>N/A</u>
<u>N/A</u>	<u>N/A</u>
<u>N/A</u>	<u>N/A</u>

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-336

UNIT NAME Millstone 2DATE 8/14/85COMPLETED BY G. NeronTELEPHONE (203) 447-1791Extension 4417REPORT MONTH July

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
1	850216	S	82.9	C	1	N/A	N/A	N/A	Completion of Refuel Maintenance Outage.
2	850715	F	114.3	A	3	85-11	AB	FCV	Unit tripped from 100% power due to reduction of reactor coolant system pressure caused by stuck open pressurizer spray valve. See LER.
3	850726	F	0	A	5	85-12	BI	STR	Power was reduced to 46% from 100% power because the "A" service water pump strainer was plugged due to high storm winds. Strainer was cleaned. See LER.

1

2

3

4

F: Forced
S: Scheduled

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)

Method:
1-Manual
2-Manual Scram
3-Automatic Scram
4-Continued from
previous month
5-Power Reduction
(Duration = 0)
9-Other (Explain)

Exhibit G - Instructions
for Preparation of Data
Entry Sheets for Licensee
Event Report (LER) File
(NUREG-0161)

Exhibit 1 - Same Source

Docket No. 50-331
 Date 8/14/85
 Unit Name Millstone 2
 Completed By G. Neron
 Telephone (203) 447-1791
Extension 4417

CORRECTIVE MAINTENANCE SUMMARY FOR SAFETY RELATED EQUIPMENT

REPORT MONTH July

DATE	SYSTEM	COMPONENT	MAINTENANCE ACTION
6/12/85	Reactor Coolant & Vessel	"B" Reactor Coolant Pump	Removed old seal and installed new seal.
5/21/85	Reactor Coolant & Vessel	"C" Reactor Coolant Pump Motor	Weld repaired lube oil pipe.
7/16/85	Reactor Coolant & Vessel	PZR Spray Flow Control Valve from Loop "1B" Valve Assembly	Cleaned plug and bonnet, repacked and assembled rebuilt operator.
7/17/85	Reactor Coolant & Vessel	Coupling in Bleedoff Line for PZR Spray Flow Control Valve from Loop "1B" Valve Assembly	Ground off old weld, prepped and welded in drain line.
7/20/85	Reactor Coolant & Vessel	Coupling in Bleedoff Line for PZR Spray Flow Control Valve from Loop "1B" Valve Assembly	Cut out old nipple and coupling. Welded in new nipple and coupling.
7/20/85	Reactor Coolant & Vessel	PZR Spray Flow Control Valve from "1B" Valve Assembly	Reassembled with new packing and bonnet gasket.

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DATE	SYSTEM	COMPONENT	MAINTENANCE ACTION
6/23/85	Reactor Coolant & Vessel	PZR Vent Solenoid Valve	Adjusted reed switch. Lubricated "O" ring and bolts. Torqued bolts.
5/8/85	CVCS	Letdown Flow Control Valve Assembly	Installed new plug and seat, packing, seal ring and seat gasket.
7/2/85	CVCS	Letdown Flow Control Valve Assembly	Added three rings of packing and adjusted.
5/9/85	CVCS	RCP Bleedoff Control Valve Assembly	Tightened actuator nut.
6/6/85	CVCS	"B" Charging Pump Discharge Relief Valve	Removed and Reinstalled valve. Thermoned heat trace on valve and associated pipes.
6/10/85	CVCS	"A" Charging Pump Discharge Relief Valve	Cleaned, lapped, installed new gaskets.
3/29/85	CVCS	Charging Discharge Header Containment Drain Valve	Replaced stem and wedge. Repacked.

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DATE	SYSTEM	COMPONENT	MAINTENANCE ACTION
6/24/85	Boric Acid	Suction Pipe from Tank "B" to Pump "B" Heat Trace Component	Removed bad splice and installed new splice kit. Added thermon.
6/11/85	Boric Acid	Recirc Valve 2-CH-510 and Piping to Tank "A" Heat Trace Component	Thermoned on and around valve 2-CH-510. Ensured connections tight on terminal board.
3/21/85	Boric Acid	"B" Boric Acid Pump	Replaced pump shaft seal and added oil.
6/25/85	Boric Acid	"B" Boric Acid Pump	Reset shaft sleeve, added oil and realigned.
3/14/85	Containment Spray	CTMT Spray Pump "B" Suction PP-3057 Isolation Valve	Replaced valve bonnet and valve stem using new flex gasket.
5/15/85	Shutdown Cooling	Shutdown Cooling Suction Header CTMT Isolation Valve	Blued wedge and installed new stem. Repacked.
3/29/85	Sampling	PZR Relief Line Flow Control Sample Valve	Lapped, blued and repacked.

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DATE	SYSTEM	COMPONENT	MAINTENANCE ACTION
4/22/85	Sampling	PZR Relief Line Flow Control Sample Valve	Cleaned, removed seat, cleaned threads, machined plug, lapped and blued.
3/30/85	Sampling	Primary Sample System CTMT Isolation Valve	Cleaned, installed new plug, lapped and blued.
4/24/85	Sampling	Primary Sample System CTMT Isolation Valve	Machined plug, lapped and blued.
6/4/85	Containment Structure	CTMT Personnel Airlock	Replaced two each roller bearings.
6/25/85	Containment Structure	TSP Basket Under "C" RCP	Added ten bags of TSP.
3/14/85	CTMT Post Incident Hydrogen Control	Hydrogen Purge Isolation in Containment Control Valve Assembly	Cleaned parts, lubricated seat and readjusted T-ring.
6/5/85	CTMT Post Incident Hydrogen Control	Hydrogen Purge Isolation in Enclosure Bldg. Control Valve Assembly.	Installed new key.
6/3/85	CTMT and Enclosure Building Purge	CTMT Purge Return Inside CTMT Isolation Valve Assy.	Weld repaired and machined coupling.

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DATE	SYSTEM	COMPONENT	MAINTENANCE ACTION
6/26/85	Vital Switchgear Emergency Cooling	6.9 and 4.16 KV Switchgear Room Cooling Coil	Sandblasted and belzona repaired cooler heads. Removed three cooler heads. Rodded out H.X.
3/26/85	Main Steam	Terry Turbine Trip Throttle Valve Assembly	Replaced trip spring.
3/8/85	Main Steam	S/G #2 to Terry Turbine Steam Supply Valve Assy.	Installed new wedge after grinding seats, repacked.
6/28/85	Main Steam	S/G #1 Main Steam Isolation Valve Air-Operator	Rebuilt operator.
6/29/85	Main Steam	S/G #1 Main Steam Isolation Valve	Added packing to stuffing box and replaced seal ring.
7/5/85	Main Steam	S/G #2 MSIV Bypass Valve Motor	Cleaned, degreased valve and reassembled with new drive sleeve, bevel gear declutch bushing, limit switch, drive cartridge and gaskets, greased.
2/7/85	Main Steam	Inlet Isolation to 2-MS-265B	Cleaned parts, installed new stem, blued wedge and repacked.

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DATE	SYSTEM	COMPONENT	MAINTENANCE ACTION
4/8/85	Feedwater	S/G #1 Aux Feed Supply Air-Assist Check Valve Assembly.	Cleaned parts, ground seat and disc, rebuilt operator.
5/11/85	Feedwater	S/G #2 Aux Feed Supply Air-Assist Check Valve Assembly.	Ground seat, machined disc, rebuilt operator, blued and assembled.
5/16/85	Feedwater	S/G #2 Main Feed Supply Air-Assist Check Valve	Rebuilt operator, drilled out seven studs, machined spacer bushing, blued disc and reassembled.
2/8/85	Service Water	"A" SVC Water Pump Discharge Strainer Assy.	Hydro-cleaned strainer.
6/4/85	Service Water	"A" SVC Water Pump Assy.	Replaced shaft sleeves, cutlass bearings, impeller and casing wear rings.
5/28/85	Service Water	"A" SVC Water Pump Motor	Changed bearings and steam cleaned. Motor overhauled.
6/6/85	Service Water	"A" SVC Water Discharge Header Check Valve	Weld Repaired.

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DATE	SYSTEM	COMPONENT	MAINTENANCE ACTION
6/13/85	Service Water	D/G Heat Exchanger SVC Water Isolation Valve Assy.	Replaced limit switch.
6/15/85	Service Water	RBCCW HX "C" Outlet PI Inst. Stop Valve	Replaced valve.
5/4/85	Service Water	"A" RBCCW HX Outlet Temperature Control Valve Assembly	Replaced rubber seat, shaft bearing, "O" ring, shaft pins and cleaned internals.
6/3/85	Service Water	Heat Exchangers Discharge Header "A" Sample Stop Valve	Cut window in pipe, weld repaired inside of pipe, painted, welded in window and painted window area.
6/20/85	Service Water	SVC Water Pump Header X-Tie Control Valve Assembly	Repaired solenoid, adjusted open/ shut switch cam and manual operator, tightened manual operator to valve body nuts and bolts.
5/25/85	Service Water	SVC Water Pumps (above ground) Discharge Pipe	Weld repaired erosion on pipe flange and painted area.
5/17/85	Service Water	RBCCW HX SVC Water Supply Pipe	Installed new spool piece.

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DATE	SYSTEM	COMPONENT	MAINTENANCE ACTION
5/17/85	Service Water	RBCCW HX SVC Water Supply Pipe	Ground out defect in internal eroded area of elbow, weld repaired and painted.
5/24/85	Service Water	RBCCW HX SVC Water Outlet Pipe	Removed elbow from pipe system. Installed prefabbed piping W-1 through W-8 between "A" RBCCW HX Outlet and first elbow downstream of 2-SW-8.1A and winter bypass valve.
5/14/85	Service Water	SVC Water Booster Pumps Supply Pipe	Weld repaired pipe, installed long sweep 90° elbow, new gasket and cleaned bolting.
5/6/85	Service Water	Diesel Engine Coolers SVC Water Supply Header Pipe	Ground out defect and weld repaired. Painted weld area.
7/16/85	RBCCW	Containment Air Recirc. Cooling "A" RBCCW Emergency Outlet Valve Assembly	Replaced defective limit switch.
6/4/85	Aerated Liquid Radwaste	Containment Sump Discharge Header Control Valve	Removed foreign material from valve internals and replaced gasket.

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DATE	SYSTEM	COMPONENT	MAINTENANCE ACTION
6/1/85	Sta. Elec. SVC 4.16 KV	4.16 KV Breaker - Bus 24C to Bus 24E 4160/480 XFMR for 24CI-2	Replaced bushings in ML-13 Mechanism
6/13/85	Sta. Elec. SVC 4.16 KV	4.16 KV Breaker - 24A to 24C Tie 24C-IT-2	Replaced bushings in ML-13 Mechanism
5/20/85	Sta. Elec. SVC 4.16 KV	4.16 KV Breaker - P5A SVC Water Pump 24C-IT-2	Replaced fuse block back plate.
4/10/85	Sta. Elec. SVC 4.16 KV	4.16 KV Breaker - P9A Aux. Feedwater Pump 24C3-2	Replaced bushings and relined charging motor.
4/8/85	Sta. Elec. SVC 4.16 KV	4.16 KV Breaker - P41A HPSI Pump 24C4-4	Changed out bearing bushings in ML-13 mechanism.
5/28/85	Sta Elec. SVC 4.16 KV	4.16 KV Breaker - P42A LPSI Pump 24C5-2	Changed out bearing bushings in ML-13 mechanism.
6/5/85	Sta Elec. SVC 4.16 KV	4.16 KV Breaker - Diesel Generator 15G-12-2	Changed out bearing bushings in ML-13 mechanism.
6/5/85	Sta Elec. SVC 4.16 KV	4.16 KV Breaker - Diesel Generator 15G-12-2	Installed new motor.

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DATE	SYSTEM	COMPONENT	MAINTENANCE ACTION
3/20/85	Sta Elec. SVC 4.16 KV	4.16 KV Breaker - P41C HPSI Pump 24D2-2	Cleaned ML-13 mechanism and replaced tuflock bushings with aluminum-bronze bushings.
3/23/85	Sta Elec. SVC 4.16 KV	4.16 KV Breaker - 24D to 24E Tie 24D-2T-2	Cleaned ML-13 mechanism and replaced all tuflock bushings with new bushings
4/2/85	Sta Elec. SVC 4.16 KV	4.16 KV Breaker - P41B HPSI Pump 24E2-2	Changed out ML-13 breaker bushings
6/4/85	120 V Vital Reg. Instrument AC	Inverter #2	Took out all capacitors, taped all capacitors and changed out old one.
5/17/85	Diesel Generator	"A" Emergency Diesel	Replaced all six bolts, retorqued lock wire and tapped out holes on turbo deflector plate.
5/8/85	Diesel Generator	"A" Diesel Generator Jacket Cooling Water Pump Assembly.	Installed new pump and motor.
5/13/85	Reactor Protection	Reactor Trip Circuit Breaker #1 through #7	Cleaned cubicle, greased linkage and replaced old breaker with new breaker.

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DATE	SYSTEM	COMPONENT	MAINTENANCE ACTION
5/13/85	Reactor Protection	Reactor Trip Circuit Breaker #8	Cleaned cubicle, greased linkage, replaced old breaker with new breaker and replaced auxiliary switch.
6/29/85	Reactor Coolant & Vessel	RCS Loop RTD	Installed 22 RCS loop RTD's and verified proper wiring. Applied EEQ sealant.
6/29/85	Reactor Coolant & Vessel	RCS Loop 1A to Channel "A" RPS RTD	Removed RTD, cleaned well, replaced tested, removed, applied never-seize, replaced & tested. Applied EEQ sealant.
6/29/85	Reactor Coolant & Vessel	RCS Loop 1B Cold Leg Temperature RTD	Removed RTD, cleaned well, installed, tested, removed applied never-seize, replaced & tested. Failed RTD.
6/29/85	Reactor Coolant & Vessel	RCS Loop 1B Cold Leg Temperature RTD	Installed new spare RTD, S/N N1236.
6/29/85	Reactor Coolant & Vessel	RCS Loop 2B Cold Leg Temperature RTD	Cleaned, applied never-seize and EEQ sealant.

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6/29/85	Reactor Coolant & Vessel	RCS Loop 2A Cold Leg Temperature RTD	Replaced with S/N 1237 and applied EEQ sealant.
6/30/85	Service Water	SVC Water Pump P5B Filter Press Diff Switch	Readjusted PDC 6481 alarm switch recal of pump start switch.
7/1/85	ESAS	Automatic Test Inserter (ATI Module)	Replaced U1 on ATI module.
7/4/85	Reactor Protection	Linear Power Range Drawer RPS-C	Repaired broken wire on operate/functional switch for lower detector.
7/2/85	Reactor Protection	S/G #1 Level-Input to RPS/AAFW	Replaced gasket on high side process connection. Back filled xmitters.
7/16/85	Reactor Protection	RPS	Soldered broken lead #35 to bottom center post of "AD" matrix trip select switch.

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REFUELING INFORMATION REQUEST

1. Name of facility: Millstone 2
2. Scheduled date for next refueling shutdown: August 1986
3. Schedule date for restart following refueling: October 1986
4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?

Unknown at this time.
5. Scheduled date(s) for submitting licensing action and supporting information:

A. Technical support information for reracking the spent fuel pool was submitted on July 24, 1985 to support a proposed license ammendment.
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:

None
7. The number of fuel assemblies (a) in the core and (b) in the spent fuel storage pool:

(a) In Core: 217 (b) 449
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 667
Plans are being formulated to rerack the spent fuel pool beginning in October, 1985, to increase the storage capacity to 1106 fuel assemblies.
9. The projected date of the last refueling that can be discharged to the spent fuel pool assuming the present licensed capacity:

1985, Spent Fuel Pool, Full core off load capacity is reached.
1987, Core Full, Spent Fuel Pool contains 648 bundles.

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 • Seiden Street, Berlin, Connecticut

P.O. BOX 270
HARTFORD, CONNECTICUT 06141-0270
(203) 666-6911

August 14, 1985

MP-8089

Director, Office of Resource Management
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Reference: Facility Operating License No. DPR-65
Docket No. 50-33

Dear Sir:

This letter is forwarded to provide the report of operating and shutdown experience relating to Millstone Unit 2 Monthly Operating Report 85-07 in accordance with Appendix A Technical Specifications, Section 6.9.1.3. One additional copy of the report is enclosed.

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY

W. D. Romberg
Station Superintendent
Millstone Nuclear Power Station

WDR/GN:ck

cc: Director, Office of Inspection and Enforcement, Region I

Director, Office of Inspection and Enforcement, Washington, D. C. (10)
U. S. Nuclear Regulatory Commission, c/o Document Management Branch,
Washington, D.C. 20555

IE24
11