



Northeast
Nuclear Energy

Rope Ferry Rd. (Route 156), Waterford, CT 06385

Millstone Nuclear Power Station
Northeast Nuclear Energy Company

P.O. Box 128

Waterford, CT 06385-0128

(203) 447-1791

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The Northeast Utilities System

Docket Nos. 50-245

50-336

50-423

Re: 10CFR50.71(a)

October 13, 1994

MP-94-580

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

Millstone Nuclear Power Station, Unit Nos. 1, 2, and 3
Facility Operating License Nos. DPR-21, DPR-65, and NPF-49
Monthly Operating Reports

In accordance with the reporting requirements of Technical Specification Sections 6.9.1.6, 6.9.1.7 and 6.9.1.5 for Millstone Unit Nos. 1, 2, and 3 respectively, enclosed are the monthly operating reports for the month of September 1994.

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY

Donald B. Miller, Jr.

Senior Vice President--Millstone Station

Enclosure

DBM:ljs

cc: T. T. Martin, Region I Administrator
J. W. Andersen, NRC Project Manager, Millstone Unit No. 1
G. S. Vissing, NRC Project Manager, Millstone Unit No. 2
V. L. Rooney, NRC Project Manager, Millstone Unit No. 3
P. D. Swetland, Senior Resident Inspector, Millstone Unit Nos. 1, 2, and 3

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R PDR

Millstone Unit No. 1

Facility Operating License No. DPR-21

Docket No. 50-245

OPERATING DATA REPORT

UNIT NAME DATE Millstone 1
DATE 941004

COMPLETED BY G. Newburgh
TELEPHONE (203)444-573

OPERATING STATUS

1. Docket Number 50-245
2. Reporting Period September 1994
3. Utility Contact G. Newburgh
4. Licensed Thermal Power (MWT): 2011
5. Nameplate Rating (Gross MWe): 662
6. Design Electrical Rating (Net MWe): 660
7. Maximum Dependable Capacity (Gross MWe): 670
8. Maximum Dependable Capacity (Net MWe): 641
9. If Changes Occur in Capacity Ratings (Items Number 4 Through 8) Since Last Report, Give Reasons: N/A

Notes:

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

	This Month	Yr.-To-Date	Cumulative
12. Hours In Reporting Period	720.0	6551	208967.0
13. Number Of Hours Reactor Was Critical	720.0	3575.9	161526.5
14. Reactor Reserve Shutdown Hours	0.0	0.0	3283.3
15. Hours Generator On-Line	720.0	3440.4	157655.4
16. Unit Reserve Shutdown Hours	0.0	0.0	93.7
17. Gross Thermal Energy Generated (MWH)	1429936.0	6455586.0	29700242.8
18. Gross Electrical Energy Generated (MWH)	481961.0	2164344.0	100090902.0
19. Net Electrical Energy Generated (MWH)	461384.0	2056201.0	95482335.0
20. Unit Service Factor	100.0	52.5	75.4
21. Unit Availability Factor	100.0	52.5	75.5
22. Unit Capacity Factor (Using MDC Net)	100.0	49.0	70.0
23. Unit Capacity Factor (Using DER Net)	97.1	47.6	69.2
24. Unit Forced Outage Rate	0.0	1.0	11.8
25. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			

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

	Forecast	Acheived
INITIAL CRITICALITY	N/A	N/A
INITIAL ELECTRICITY	N/A	N/A
COMMERCIAL OPERATION	N/A	N/A

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-245
UNIT Millstone Unit 1
DATE 941004
COMPLETED BY G. Newburgh
TELEPHONE (203) 447-1791
EXT 5730

MONTH: September 1994

DAY AVG. DAILY POWER LEVEL
(MWe-Net)

1	588
2	593
3	637
4	641
5	642
6	645
7	612
8	638
9	647
10	646
11	647
12	647
13	647
14	639
15	647
16	648

DAY AVG. DAILY POWER LEVEL
(MWe-Net)

17	648
18	649
19	650
20	650
21	642
22	649
23	647
24	649
25	647
26	647
27	648
28	641
29	649
30	651
31	N/A

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. 50-245

UNIT NAME Millstone Unit 1

DATE 941004

COMPLETED BY G. Newburgh

TELEPHONE (203) 447-1791

EXT 5730

REPORT MONTH September 1994

No.	Date	Type	1	Duration (Hours)	Reason	2	Method of Shutting Down Reactor	3	License Event Report #	System Code	4	Component Code	5	Cause & Corrective Action to Prevent Recurrence
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← N/A →

1 Type

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 -Continued from
Previous Month
5 -Power Reduction
(Duration - 0)
6 -Other (Explain)

4 IEEE Standard 805-1984,

"Recommended Practices
for System Identification in
Nuclear Power Plants and
Related Facilities"

5 IEEE Standard 803A-1983,

"Recommended Practices
for Unique Identification in
Power Plants and Related
Facilities - Component
Function Identifiers"

REFUELING INFORMATION REQUEST

1. Name of facility: Millstone 1
2. Scheduled date for next refueling shutdown: October 1995
3. Scheduled date for restart following refueling: January 1996
4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?
None at this time
5. Scheduled date(s) for submitting licensing action and supporting information:
None at this time
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 at this time
7. The number of fuel assemblies (a) in the core and (b) in the spent fuel storage pool:
In Core: (a) 580 In Spent Fuel Pool: (b) 2304 Unconsolidated
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:
Present Capacity: Maximum 3229 fuel assembly locations
9. The projected date of the last refueling that can be discharged to the spent fuel pool assuming the present licensed capacity:
1997 Spent Fuel Pool Full, Core Off Load capacity is reached.

Millstone Unit No. 2

Facility Operating License No. DPR-65

Docket No. 50-336

OPERATING DATA REPORT

UNIT NAME	Millstone Unit 2
DATE	10/05/94
COMPLETED BY	S. Doboe
TELEPHONE	(203) 447-1791
EXT	4678

OPERATING STATUS

1. Docket Number	50-336
2. Reporting Period	September 1994
3. Utility Contact	S. Doboe
4. Licensed Thermal Power (MWt):	2700
5. Nameplate Rating (Gross MWe):	909
6. Design Electrical Rating (Net MWe):	870
7. Maximum Dependable Capacity (Gross MWe):	903.10
8. Maximum Dependable Capacity(Net MWe):	873.10
9. If Changes Occur in Capacity Ratings (Items Number 4 Through 8) Since Last Report, Give Reasons:	N/A

Notes: Items 22 and 23 cumulative are weighted averages. Unit operated at 2560 MWTH prior to its uprating to the current 2700 MWTH power level.

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

	This Month	Yr.-To-Date	Cumulative
12. Hours In Reporting Period	720.0	6551.0	164495.0
13. Number Of Hours Reactor Was Critical	683.8	4343.1	117290.1
14. Reactor Reserve Shutdown Hours	0.0	0.0	2205.5
15. Hours Generator On-Line	665.7	4226.8	112101.5
16. Unit Reserve Shutdown Hours	0.0	0.0	468.2
17. Gross Thermal Energy Generated (MWH)	1743833.0	11417425.0	289017578.4
18. Gross Electrical Energy Generated (MWH)	578485.5	3817725.5	94769714.5
19. Net Electrical Energy Generated (MWH)	556304.5	3666846.5	90913634.3
20. Unit Service Factor	92.5	65.4	68.1
21. Unit Availability Factor	92.5	65.4	68.4
22. Unit Capacity Factor (Using MDC Net)	88.5	64.1	64.7
23. Unit Capacity Factor (Using DER Net)	88.8	64.3	63.7
24. Unit Forced Outage Rate	7.5	17.4	15.3
25. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			
Refueling outage began October 1, 1994 - duration 63 days			

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

INITIAL CRITICALITY	Forecast	Achieved
INITIAL ELECTRICITY	N/A	N/A
COMMERCIAL OPERATION	N/A	N/A

INITIAL CRITICALITY	Forecast	Achieved
INITIAL ELECTRICITY	N/A	N/A
COMMERCIAL OPERATION	N/A	N/A

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.	50-336
UNIT	Millstone Unit 2
DATE	10/05/94
COMPLETED BY	S. Doboe
TELEPHONE	(203) 447-1791
EXT	4678

MONTH: SEPTEMBER 1994

DAY	AVG. DAILY POWER LEVEL (MWe-Net)
-----	-------------------------------------

1	0
2	0
3	137
4	636
5	783
6	865
7	866
8	866
9	865
10	867
11	868
12	868
13	868
14	867
15	867
16	867

DAY	AVG. DAILY POWER LEVEL (MWe-Net)
-----	-------------------------------------

17	867
18	867
19	868
20	868
21	867
22	868
23	869
24	868
25	868
26	867
27	868
28	867
29	867
30	868
31	---

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 Unit
 DATE 10/05/94
 COMPLETED BY S. Doboe
 TELEPHONE (203)-447-1791
 EXT 4678

REPORT MONTH: September 1994

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	License Event Report #	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
94-03	940727	F	54.3	A	4	94-019	AB	MO	Continued from the previous month. The unit was restarted on 9/2/ 94 and reached 100% power on 9/5/94.

¹F: Forced
S: Scheduled

²Reason
 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)

³Method
 1 - Manual
 2 - Manual Scram
 3 - Automatic Scram
 4 - Continued from Previous Month
 5 - Power Reduction (Duration = 0)
 6 - Other (Explain)

⁴IEEE Standard 805-1984,
 "Recommended Practices
 for System Identification in
 Nuclear Power Plants and
 Related Facilities"

⁵IEEE Standard 803A-1983,
 "Recommended Practices
 for Unique identification in
 Power Plants and Related
 Facilities - Component
 Function Identifiers"

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-336
 UNIT NAME Millstone Unit
 DATE 10/05/94
 COMPLETED BY S. Doboe
 TELEPHONE (203)-447-1791
 EXT 4678

REPORT MONTH: September 1994

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	License Event Report #	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
94-03	940727	F	54.3	A	4	94-019	AB	MO	Continued from the previous month. The unit was restarted on 9/2/ 94 and reached 100% power on 9/5/94.

¹F: Forced
S: Scheduled

²Reason
 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)

³Method
 1 - Manual
 2 - Manual Scram
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⁴IEEE Standard 805-1984,
 "Recommended Practices
 for System Identification in
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⁵IEEE Standard 803A-1983,
 "Recommended Practices
 for Unique identification in
 Power Plants and Related
 Facilities - Component
 Function Identifiers"

REFUELING INFORMATION REQUEST

1. Name of the facility: Millstone Unit 2
2. Scheduled date for next refueling outage: Currently in the EOC 12 Refueling Outage. The outage began on October 1, 1994.
3. Scheduled date for restart following refueling: December 3, 1994
4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?
Yes. License amendment changes are being sought for Engineered Safety Actuation System changes, changes to take advantage of Battery Charger flexibility, Boron Dilution Accident Analysis assumption changes, and Generic Letter 90-06.
5. Scheduled date(s) for submitting licensing action and supporting information:
Boron Dilution/Generic Letter 90-06 changes were submitted in April 1994. ESAS and Battery Charger changes were submitted in May 1994.
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:
Same fuel supplier, improved new fuel assembly design pursuant to 10CFR50.59.
7. The number of fuel assemblies (a) in the core and (b) in the spent fuel storage pool:

In Core: (a) 217 In Spent Fuel Pool: (b) 868

NOTE: These numbers represent the total Fuel Assemblies and Consolidated Fuel Storage Boxes (3 total containing the fuel rods from 6 fuel assemblies) in these two (2) Item Control Areas.
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:
Present storage capacity: 1306 storage locations

9. The projected date of the last refueling that can be discharged to the spent fuel pool assuming present license capacity:
2000, Spent Fuel Pool Full, Core offload capacity is reached.
2004, Core Full, Spent Fuel Pool Full.

Millstone Unit No. 3

Facility Operating License No. NPF-49

Docket No. 50-423

***** NRC OPERATING STATUS REPORT COMPLETED BY REACTOR ENGINEERING *****

1. DOCKET.....50-423 OPERATING STATUS

2. REPORTING PERIOD...SEPTEMBER 1994 OUTAGE * ONLINE HOURS...333.9 + 386.1 = 720.0

3. UTILITY CONTACT.....Irene R. Hudson (203) 444-5400 *****

4. LICENSED THERMAL POWER.. 3411 * MILLSTONE *

5. NAMEPLATE RATING (GROSS MWE)..... 1,253 MW * UNIT 3 *

6. DESIGN ELECTRICAL RATING (NET MWE)..... 1,153.6 *****

7. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE)..... 1,184.2

8. MAXIMUM DEPENDABLE CAPACITY (NET MWE)..... 1,137.0

9. IF CHANGES OCCUR ABOVE SINCE LAST REPORT, REASONS ARE.....

N/A

10. POWER LEVEL TO WHICH RESTRICTED, IF ANY (NET MWE)..... N/A

11. REASON FOR RESTRICTION, IF ANY...N/A

	MONTH	YEAR TO DATE	CUMULATIVE TO DATE
	=====	=====	=====
12. HOURS IN REPORTING PERIOD	720.0	6,551.0	73,991.0
13. NUMBER OF HOURS THE REACTOR WAS CRITICAL	414.7	6,245.7	55,559.6
14. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	6,466.5
15. HOURS GENERATOR ONLINE	386.1	6,217.1	54,454.7
16. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
17. GROSS THERMAL ENERGY GENERATED (MWH)	1,268,064.0	20,976,203.0	178,261,309.1
18. GROSS ELECTRICAL ENERGY GENERATED (MWH)	428,601.0	7,198,675.5	61,366,320.6
19. NET ELECTRICAL ENERGY GENERATED (MWH)	402,521.4	6,901,729.1	58,368,334.8
20. UNIT SERVICE FACTOR	53.6	94.9	73.6
21. UNIT AVAILABILITY FACTOR	53.6	94.9	73.6
22. UNIT CAPACITY FACTOR (USING MDC NET)	49.2	92.7	69.3
23. UNIT CAPACITY FACTOR (USING DER NET)	48.5	91.3	68.4
24. UNIT FORCED OUTAGE RATE	46.4	5.1	16.0
25. UNIT FORCED OUTAGE HOURS	333.9	333.9	10,338.8

SHUTDOWNS SCHEDULED OVER NEXT SIX MONTHS (TYPE, DATE, AND DURATION OF EACH).....

N/A

IF CURRENTLY SHUTDOWN, ESTIMATED STARTUP DATE.....N/A

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO: 50-423
 UNIT: MILLSTONE UNIT 3
 DATE: October 7, 1994
 COMPLETED BY: L. R. Hudson 203-444-5400

MONTH September 1994

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	<u>1115</u>	16	<u>0</u>
2	<u>1116</u>	17	<u>0</u>
3	<u>1116</u>	18	<u>0</u>
4	<u>1117</u>	19	<u>0</u>
5	<u>1119</u>	20	<u>0</u>
6	<u>1119</u>	21	<u>0</u>
7	<u>1118</u>	22	<u>95</u>
8	<u>627</u>	23	<u>823</u>
9	<u>0</u>	24	<u>1097</u>
10	<u>0</u>	25	<u>1106</u>
11	<u>0</u>	26	<u>1116</u>
12	<u>0</u>	27	<u>1109</u>
13	<u>0</u>	28	<u>1132</u>
14	<u>0</u>	29	<u>1120</u>
15	<u>0</u>	30	<u>1123</u>
		31	<u></u>

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO: 50-423
 UNIT: MILLSTONE UNIT 3
 DATE: October 7, 1994
 COMPLETED BY: I. R. Hudson
 TELEPHONE: 203-444-5400

Number	Date	Type (1)	Duration (Hours)	Reason (2)	Method of Shutting Down the Reactor (3)	Licensee Event Report Number	System Code (4)	Component Code (5)	Cause and Corrective Action to Prevent Recurrence
94-03	940908	F	333.9	A	2	94-011-00	SB	ISV	Cause was due to equipment failure. A pin failed in a solenoid on the "C" MSIV, which resulted in the MSIV failing closed during surveillance testing. As corrective action, the solenoid and a number of pins were replaced, and the MSIVs were tested satisfactorily.

1: Type:

F: Forced
 S: Scheduled

2: Reasons:

A Equipment Failure (Explain)
 B Maintenance or Test
 C Refueling
 D Regulatory Restriction
 E Operator Training & License
 Exam
 F Administrative
 G Operational Error (Explain)
 H Other

3: Method

1 Manual
 2 Manual Scram
 3 Automatic Scram
 4 Continued from Previous Month
 5 Power Reduction
 (Duration = 0)
 9 Other (Explain)

4: IEEE Standard 805-1984

5: IEEE Standard 803A-1983

REFUELING INFORMATION REQUEST

September 1994

1. Name of facility: Millstone 3.
2. Scheduled date for next refueling shutdown: April 29, 1995
3. Scheduled date for restart following refueling: July 13, 1995
4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendments?

No
5. Scheduled date for submitting licensing action and supporting information.

N/A
6. Important licensing considerations associated with refueling, e.g., new or different fuel design or supplier, unreviewed design of 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): 193 (b): 332
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:

Present size - 756
No increase requested
9. The projected date of the last refueling that can be discharged to the spent fuel pool assuming the present licensed capacity:

End of cycle 5.