



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
Fax (203) 444-4277

The Northeast Utilities System

August 12, 1994

MP-94-494

Docket Nos. 50-245
50-336
50-423

Re: 10CFR50.71(a)

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 July 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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Millstone Unit No. 1

Facility Operating License No. DPR-21

Docket No. 50-245

OPERATING DATA REPORT

UNIT NAME Millstone Unit 1
 DATE 940810
 COMPLETED BY G. Newburgh
 TELEPHONE (203)447-1791
 EXT 5730

OPERATING STATUS

1. Docket Number 50-245
 2. Reporting Period July 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: The following are corrections to the May, 1994 data report:

| Unit Forced Outage Rate | |
|-------------------------|------------|
| Month | Yr-To-Date |
| 13.5 | 5.8 |

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 | 744.0 | 5087 | 207503.0 |
| 13. Number Of Hours Reactor Was Critical | 744.0 | 2111.9 | 160062.5 |
| 14. Reactor Reserve Shutdown Hours | 0.0 | 0.0 | 3283.3 |
| 15. Hours Generator On-Line | 744.0 | 1976.4 | 156191.4 |
| 16. Unit Reserve Shutdown Hours | 0.0 | 0.0 | 93.7 |
| 17. Gross Thermal Energy Generated (MWH) | 1437927.0 | 3686973.0 | 294232815.0 |
| 18. Gross Electrical Energy Generated (MWH) | 483750.0 | 1234437.0 | 99160995.0 |
| 19. Net Electrical Energy Generated (MWH) | 462909.0 | 1166981.0 | 94593115.0 |
| 20. Unit Service Factor | 100.0 | 38.9 | 75.3 |
| 21. Unit Availability Factor | 100.0 | 38.9 | 75.3 |
| 22. Unit Capacity Factor (Using MDC Net) | 97.1 | 35.8 | 69.8 |
| 23. Unit Capacity Factor (Using DER Net) | 94.3 | 34.8 | 69.1 |
| 24. Unit Forced Outage Rate | 0.0 | 1.8 | 11.9 |
| 25. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): | None | | |

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

| Forecast | Achieved |
|----------|----------|
| N/A | N/A |
| N/A | N/A |
| N/A | N/A |

INITIAL CRITICALITY
 INITIAL ELECTRICITY
 COMMERCIAL OPERATION

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-245
UNIT: Millstone Unit 1
DATE: 940810
COMPLETED BY: C. Newburgh
TELEPHONE: (203) 447-1791
EXT: 5730

MONTH: July 1994

DAY AVG. DAILY POWER LEVEL
(MWe-Net)

| | |
|----|------------|
| 1 | <u>651</u> |
| 2 | <u>651</u> |
| 3 | <u>651</u> |
| 4 | <u>651</u> |
| 5 | <u>650</u> |
| 6 | <u>642</u> |
| 7 | <u>650</u> |
| 8 | <u>650</u> |
| 9 | <u>650</u> |
| 10 | <u>650</u> |
| 11 | <u>650</u> |
| 12 | <u>604</u> |
| 13 | <u>543</u> |
| 14 | <u>649</u> |
| 15 | <u>649</u> |
| 16 | <u>650</u> |

DAY AVG. DAILY POWER LEVEL
(MWe-Net)

| | |
|----|------------|
| 17 | <u>649</u> |
| 18 | <u>650</u> |
| 19 | <u>648</u> |
| 20 | <u>649</u> |
| 21 | <u>648</u> |
| 22 | <u>648</u> |
| 23 | <u>647</u> |
| 24 | <u>648</u> |
| 25 | <u>641</u> |
| 26 | <u>648</u> |
| 27 | <u>380</u> |
| 28 | <u>262</u> |
| 29 | <u>642</u> |
| 30 | <u>646</u> |
| 31 | <u>646</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. 50-245

UNIT NAME Millstone Unit 1DATE 940810COMPLETED BY G. NewburghTELEPHONE (203)-447-1791EXT 5730REPORT MONTH: July 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 |
|-------|--------|-------------------|---------------------|---------------------|--|------------------------------|------------------------------------|--------------------------------|---|
| 94-05 | 940727 | F | 0 | A | 5 | 1-94-025 | Not available at time of report | | Power reduction to adjust stroke time on 1-IC-1 |

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 - 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 the facility: Millstone Unit 1
2. Scheduled date for next refueling outage: February 1996
3. Scheduled date for restart following refueling: April 1996
4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?
None identified 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 identified 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 present license capacity:
1997, spent fuel pool full, core offload 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 | 8/08/94 |
| COMPLETED BY | S. Doboie |
| TELEPHONE | (203) 447-1791 |
| EXT | 4678 |

OPERATING STATUS

| | |
|---|-----------|
| 1. Docket Number | 50-336 |
| 2. Reporting Period | July 1994 |
| 3. Utility Contact | S. Doboie |
| 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 | 744.0 | 5087.0 | 163031.0 |
| 13. Number Of Hours Reactor Was Critical | 641.7 | 3659.3 | 116606.3 |
| 14. Reactor Reserve Shutdown Hours | 0.0 | 0.0 | 2205.5 |
| 15. Hours Generator On-Line | 638.5 | 3621.1 | 111435.8 |
| 16. Unit Reserve Shutdown Hours | 0.0 | 0.0 | 468.2 |
| 17. Gross Thermal Energy Generated (MWH) | 1715901.0 | 9673592.0 | 287273745.4 |
| 18. Gross Electrical Energy Generated (MWH) | 570138.0 | 3239240.0 | 94191229.0 |
| 19. Net Electrical Energy Generated (MWH) | 549707.0 | 3116353.0 | 90363140.8 |
| 20. Unit Service Factor | 85.8 | 71.2 | 68.4 |
| 21. Unit Availability Factor | 85.8 | 71.2 | 68.6 |
| 22. Unit Capacity Factor (Using MDC Net) | 84.6 | 70.2 | 64.9 |
| 23. Unit Capacity Factor (Using DER Net) | 84.9 | 70.4 | 63.8 |
| 24. Unit Forced Outage Rate | 14.2 | 2.8 | 14.8 |

25. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
Refueling outage scheduled to begin September 16, 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 |

AVERAGE DAILY UNIT POWER LEVEL

| | |
|--------------|------------------|
| DOCKET NO. | 50-336 |
| UNIT | Millstone Unit 2 |
| DATE | 08/08/94 |
| COMPLETED BY | S. Doboie |
| TELEPHONE | (203) 447-1791 |
| EXT | 4678 |

MONTH: JULY 1994

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

| | |
|----|-----|
| 1 | 870 |
| 2 | 870 |
| 3 | 870 |
| 4 | 870 |
| 5 | 866 |
| 6 | 863 |
| 7 | 858 |
| 8 | 863 |
| 9 | 864 |
| 10 | 863 |
| 11 | 864 |
| 12 | 864 |
| 13 | 864 |
| 14 | 864 |
| 15 | 867 |
| 16 | 870 |

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

| | |
|----|-----|
| 17 | 870 |
| 18 | 869 |
| 19 | 868 |
| 20 | 869 |
| 21 | 868 |
| 22 | 867 |
| 23 | 867 |
| 24 | 867 |
| 25 | 868 |
| 26 | 866 |
| 27 | 404 |
| 28 | 0 |
| 29 | 0 |
| 30 | 0 |
| 31 | 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.

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-336
 UNIT NAME Millstone Unit
 DATE 8/04/94
 COMPLETED BY S. Doboe
 TELEPHONE (203)-447-1791
 EXT 4678

REPORT MONTH: July 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 | 105.5 | A | 1 | 94-019 | LL | COL | On 7/27/97 at 0600 hours a plant shutdown commenced due to an oil leak from the 'A' Reactor Coolant Pump not being contained in the oil collection system. See LER. |

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 - 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 the facility: Millstone Unit 2
2. Scheduled date for next refueling outage: September 1994
3. Scheduled date for restart following refueling: November 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) 784
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 *****

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1. DOCKET....50-423                                     OPERATING STATUS
2. REPORTING PERIOD...JULY 1994          OUTAGE + ONLINE HOURS... 0.0  + 744.0  = 744.0
3. UTILITY CONTACT.....L. C. Doboe (203) 447-1791 x 6076                                     *****
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

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

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

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO: 50-423

UNIT: MILLSTONE UNIT 3

DATE: August 2, 1994

COMPLETED BY: L. C. Doboe 203-447-1791 x 6076

MONTH JULY 1994

| DAY | AVERAGE DAILY POWER LEVEL (MWE-NET) | DAY | AVERAGE DAILY POWER LEVEL (MWE-NET) |
|-----|--|-----|--|
| 1 | <u>1108</u> | 16 | <u>1107</u> |
| 2 | <u>1066</u> | 17 | <u>1111</u> |
| 3 | <u>1082</u> | 18 | <u>1097</u> |
| 4 | <u>1110</u> | 19 | <u>1110</u> |
| 5 | <u>988</u> | 20 | <u>1108</u> |
| 6 | <u>1107</u> | 21 | <u>1106</u> |
| 7 | <u>1110</u> | 22 | <u>1103</u> |
| 8 | <u>1109</u> | 23 | <u>1104</u> |
| 9 | <u>1110</u> | 24 | <u>1104</u> |
| 10 | <u>1112</u> | 25 | <u>1105</u> |
| 11 | <u>1106</u> | 26 | <u>1105</u> |
| 12 | <u>1111</u> | 27 | <u>1102</u> |
| 13 | <u>1107</u> | 28 | <u>1106</u> |
| 14 | <u>1109</u> | 29 | <u>1104</u> |
| 15 | <u>1109</u> | 30 | <u>1101</u> |
| | | 31 | <u>988</u> |

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO: 50-423
 UNIT: MILLSTONE UNIT 3
 DATE: August 2, 1994
 COMPLETED BY: L. C. Doboe
 TELEPHONE: 203-447-1791 x 6076

| 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 |
|--------|------|-------------|---------------------|---------------|---|------------------------------------|-----------------------|--------------------------|--|
| None | | | | | | | | | |

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

July 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.