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

April 14, 1994 MP-94-263

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, 6.9.1.6, Appendix A, and 6.9.1.5 for Millstone Unit Nos. 1, 2, and 3 respectively, enclosed are the monthly operating reports for the month of March 1994.

Very truly yours,

NORTHEAST NUCLEAR ENERGY 20MPANY

Donald B. Miller, Jr.

Senior Vice President-Millstone Station

Enclosure

DBM/WJT: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

9404250191 940331 PDR ADDCK 05000245 R PDR Millstone Unit No. 1

Facility Operating License No. DPR-21

Docket No. 50-245

UNIT NAME Millstone Unit 1 DATE 940407 COMPLETED BY G. Newburgh TELEPHONE (203)447-1791 EXT 5730

OPERATING STATUS

1.	Docket Number	50-245	
2.	Reporting Period	March 1994	Notes:
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	

N/A

 If Changes Occur in Capacity Ratings (Items Number 4 Through 8) Since Last Report, Give Reasons: N/A

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

		This Month	YrTo-Date	Cumulative
12.	Hours In Reporting Period	744.0	2160	204576.0
13.	Number Of Hours Reactor Was Critical	0.0	358.0	158308.6
14.	Reactor Reserve Shutdown Hours	0.0	0.0	3283.3
15.	Hours Generator On-Line	0.0	347.4	154562.4
16.	Unit Reserve Shutdown Hours	0.0	0.0	93.7
17.	Gross Thermal Energy Generated (MWH)	0.0	634946.0	291180788.0
18.	Gross Electrical Energy Generated (MWH)	0.0	206627.0	98133185.0
19.	Net Electrical Energy Generated (MWH)	-2143.0	190849.0	93616983.0
20.	Unit Service Factor	0.0	16.1	75.6
21.	Unit Availability Factor	0.0	16.1	75.6
22	Unit Capacity Factor (Using MDC Net)	-0.4	13.8	70.1
23.	Unit Capacity Factor (Using DER Net)	-0.4	13.4	69.3
24.	Unit Forced Outage Rate	0.0	0.0	12.0
-		and the second se	And the second s	

25. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): Unit shutdown for refueling outage (RFO 14) at time of this repoort

26.	If Unit Shutdown At End Of Report Period, Estimated Date of Startup	April 1994	
27.	Units In Test Status (Prior to Commercial Operation):		
		Forecast	Achieved

		a company of the sec
INITIAL CRITICALITY	N/A	N/A
INITIAL ELECTRICITY	N/A	N/A
COMMERCIAL OPERATION	N/A	N/A

UNIT NAME Millstone Unit 1 DATE 940407 COMPLETED BY G. Newburgh TELEPHONE (203)447-1791 EXT 5730

OPERATING STATUS

1.	Docket Number	50-245		
2.	Reporting Period	February 1994	Notes:	* Revisions
3.	Utility Contact	G. Newburgh		
4.	Licensed Thermal Power (MWA):	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	ter in the second second	

N/A

- If Changes Occur in Capacity Ratings (Items Number 4 Through 8) Since Last Report, Give Reasons: N/A
- 10. Power Level To Which Restricted, If any (Net MWe):
- 11. Reasons For Restrictions, If Any: N/A

	This Month	YrTo-Date	Cumulative
12. Hours In Reporting Period	672.0	1416	203832.0
13. Number Of Hours Reactor Was Critical	0.0	358.0	158308.6
14. Reactor Reserve Shutdov, h Hours	0.0	0.0	3283.3
15. Hours Generator On-Linc	0.0	* 347.4	154562.4
16. Unit Reserve Shutdown Hours	0.0	0.0	93.7
17. Gross Thermal Energy Gent rated (MWH)	0.0	634946.0	291180788.0
18. Gross Electrical Energy Generated (MWH)	0.0	206627.0	98133185.0
19. Net Electrical Energy Generated (MWH)	* -1935	194927.0	93619126.0
20. Unit Service Factor	0.0	24.5	75.8
21. Unit Availability Factor	0.0	24.5	75.9
22. Unit Capacity Factor (Using MDC Net)	-0.5	21.3	70.3
23. Unit Capacity Factor (Using DER Net)	-0.4	20.7	69.6
24. Unit Forced Outage Rate	0.0	0.0	12.0
	and the second se		

25. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): Unit shutdown for refueling outage (RFO 14) at time of this report

26	If Unit Shutdown At End Of Report Period, Estimated Date of Startup:	April 1994	
27	Units In Test Status (Prior to Commercial Operation):		
		Forecast	Achieved

	1 10 1 10 10 10 10 10 10 10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
INITIAL CRITICALITY	N/A	N/A
INITIAL ELECTRICITY	N/A	N/A
COMMERCIAL OPERATION	N/A	N/A

UNIT NAME Millstone Unit 1 DATE 940407 COMPLETED BY G. Newburgh TELEF: IONE (203)447-1791 EXT 5730

OPERATING STATUS

1.	Docket Number	50-245		
2.	Reporting Period	January 1994	Notes:	* Revisions
3.	Utility Contact	G. Newburgh		
4.	Licensed Thermal Power (MWI):	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		

N/A

 If Changes Occur in Capacity Ratings (Items Number 4 Through 8) Since Last Report, Give Reasons: N/A

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

		This Month	YrTo-Date	Cumulative
12.	Hours In Reporting Period	744.0	744	203160.0
13.	Number Of Hours Reactor Was Critical	358.0	358.0	158308.6
14.	Reactor Reserve Shutdown Hours	0.0	0.0	3283.3
15.	Hours Generate, Un-Line	347.4	347.4	154562.4
16.	Unit Reserve Shutdown Hours	0.0	0.0	93.7
17.	Gross Thermal Energy Generated (MWH)	634946.0	634946.0	291180788.0
18.	Gross Electrical Energy Generated (MWH)	206627.0	206627.0	98133185.0
19.	Net Electrical Energy Generated (MWH)	194927.0	194927.0	93621061.0
20.	Unit Service Factor	46.7	46.7	76.1
21.	Unit Availability Factor	46.7	46.7	76.1
22.	Unit Capacity Factor (Using MDC Net)	* 40.9	* 40.9	70.5
23.	Unit Capacity Factor (Using DER Net)	39.7	39.7	69.8
24.	Unit Forced Outage Rate	0.0	0.0	12.0
		The second		

25. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): Unit shutdown for refueling outage (RFO 14) at time of this report

26. If Unit Shutdown At End Of Re	port Period, Estimated Date of Startup:	March 1994	
27. Units In Test Status (Prior to Co	ommercial Operation):		
		Forecast	Achieved
	INITIAL CRITICALITY	N/A	N/A
	INITIAL ELECTRICITY	N/A	N/A
	COMMERCIAL OPERATION	N/A	N/A

DOCKET NO. 50-245 UNIT Millstone Unit 1 DATE 940407 COMPLETED BY G. Newgurgh TELEPHONE (203)447-1791 EXT 5730

MONTH:	March 1994		
DAY	AVG. DAILY POWER LEVEL (MWe-Net)	DAY	AVG. DAILY POWER LEVEL (MWe-Net)
1	0	17	0
2	0	18	0
3	0	19	0
4	0	20	0
5	0	21	0
6	0	22	0
7	0	23	0
8	0	24	0
9	0	25	0
10	0	26	0
11	0	27	0
12	0	28	0
13	0	29	0
14	0	30	0
15	0	31	0
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.

UNIT SHUTDOWNS AND POWER REDUCTIONS

								CON 1	UNIT NAME DATE PLETED BY FELEPHONE	50-245 Millstone Unit 1 940407 G. Newburgh (203)447-1791
				R	EPORT MONTH	March 199	14		EXT	5730
No.	Date	Type 1	Duration (Hours)	Reason ²	Method of Shutting Down Reactor 3	License Event Report #	System Code 4	Component Code 5	Cause & Co Action to Prevent Re	orrective o currence
94-01B	940115	S	0	С	4	N/A	N/A	N/A	Continued f	rom onth.

F: Forced	2 Reason	3 Method	4 IEEE Standard 805-1984,
S: Scheduled	A -Equipment Failure (Explain)	1 -Manual	"Recommended Practices
	B -Maintenance or Test	2 -Manual Scram	for System Identification in
	C -Refueling	3 -Automatic Scram	Nuclear Power Plants and
	D -Regulatory Restriction	4 -Continued from	Related Facilities"
	E -Operator Training & License Examination	Previous Month	
	F -Administrative	5 -Power Reduction	5 IEEE Standard 803A-1983
	G -Operational Error (Explain)	(Duration - 0)	"Recommended Practices
	H -Other (Explain)	6 -Other (Explain)	for Unique Identification in

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: Unit shutdown at time of report.
- 3. Scheduled date for restart following refueling: April 1994
- Will refueling or resumption of operation thereafter require a technical specification change or other license amendment? None identified at this time.
- Scheduled date(s) for submitting licensing action and supporting information: None at this time.
- Important licensing considerations associated withrefueling, e.g., new or different fuel design or supplier, unreviewed design or performance analysis methods, significant changes in fuel design, new operating procedures: <u>188 GE10 Fuel Assemblies</u>
- The number of fuel assemblies (a) in the core and (b) in the spent fuel storage pool:

In Core: (a) O In Spent Fuel Pool: (b) 2884 Unconsolidated

- 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
- 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

UNIT NAME	Millstone Unit 2
DATE	4/05/94
COMPLETED BY	R. Borchert
TELEPHONE	(203) 447-1791
EXT	4418

OPERATING STATUS

1.	Dorket Number	50-336	
2.	Reporting Period	March 1994	Notes: Items 22 and 23
3.	Utility Contact	R. Borchert	cumulative are weighted
4.	Licensed Thermal Power (MWt):	2700	averages. Unit operated
5.	Nameplate Rating (Gross MWe):	909	at 2560 MWTH prior to its
6.	Design Electrical Rating (Net MWe):	870	uprating to the current
7.	Maximum Dependable Capacity (Gross MWe):	903.10	2700 MWTH power level.
8.	Maximum Dependable Capacity(Net MWe):	873.10	

N/A

 If Changes Occur in Capacity Ratings (Items Number 4 Through 8) Since Last Report, Give Reasons:

N/A

10. Power Level To Which Restricted, If any (Net MWe):

11. Reasons For Restrictions, If Any: N/A

	This Month	YrTo-Date	Cumulative
12. Hours In Reporting Period	744.0	2160.0	160104.0
13 Number Of Hours Reactor Was Critical	744.0	2160.0	115107.0
14. Reactor Reserve Shutdown Hours	0.0	0.0	2205.5
15. Hours Generator On-Line	744.0	2160.0	109974.7
16. Unit Reserve Shutdown Hours	0.0	0.0	468.2
17. Gross Thermal Energy Generated (MWH)	2004989.0	5800687.0	283400840.4
18. Gross Electrical Energy Generated (MWH)	673788.5	1947515.0	92899504.0
19. Net Electrical Energy Generated (MWH)	650646.5	1880335.0	89127122.8
20. Unit Service Factor	100.0	100.0	68.7
21. Unit Availability Factor	100.0	100.0	69.0
22. Unit Capacity Factor (Using MDC Net)	100.2	99.7	65.2
23. Unit Capacity Factor (Using DER Net)	100.5	100.1	64.1
24. Unit Forced Outage Rate	0.0	0.0	14.9
25. Shutdowns Scheduled Over Next 6 Months (Type, Refueling outage scheduled to begin July 30	Date, and Duration of Each): 0, 1994 - duration 65 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):
 Forecast

 Achieved

	the second s	
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.	50-336
UNIT	Millstone Unit 2
DATE	4/05/94
COMPLETED BY	R. Borchert
TELEPHONE	(203) 447-1791
EXT	4418

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ALTHER	F 4.4	141601	1 1 Sal 1 1	1.92	0.4

DAY	AVG. DAILY POWER LEVEL (MWe-Net)	DAY	AVG. DAILY POWER LEVEL (MWe-Net)
1	876	17	873
2	876	18	873
3	876	19	874
4	876	20	875
5	876	21	875
6	876	22	875
7	852	23	874
8	875	24	875
9	875	25	875
10	875	26	875
11	876	27	875
12	876	28	874
13	877	29	874
14	877	30	875
15	877	31	875
16	876		

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 <u>Millstone Unit</u> DATE <u>4/05/94</u> COMPLETED BY <u>R. Borchert</u> TELEPHONE (203)-447-1791 EXT 4418

REPORT MONTH: March 1994

No.	Date	Type'	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
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

¹ F: Forced

S: Scheduled

² Reason

- A Equipment Failure (Explain)
- B Mainteneance 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: July 1994
- 3. Scheduled date for restart following refueling: October 1994
- 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, to take advantage of Battery Charger flexability, Boron Dilution Accident Analysis assumption changes, and Generic Letter 90-06.
- Scheduled date(s) for submitting licensing action and supporting information: April 1994.
- 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: <u>Same fuel supplier, improved new fuel assembly design pursuant to</u> 10CFR50.59.
- 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:
A license approach bee been requestly approach by the NPC to increase

A license ammendment has been recently approved by the NRC to increase the spent fuel pool storage capacity to 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.	DOCKET50-423	OPERATING S	TATUS	
2.	REPORTING PERIOD MARCH 1994	OUTAGE + ONLINE HOURS	0.0 + 744.0 =	744.0
3.	UTILITY CONTACT F. W. Bo	rnt 203-447-1791 x4823		*****
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)	I/A	

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

	MONTH	YEAR TO DATE	CUMULATIVE TO DATE	

12. HOURS IN REPORTING PERIOD	744.0	2,160.0	69,600.0	
13. NUMBER OF HOURS THE REACTOR WAS CRITICAL	744.0	2,160.0	51,473.9	
14. REACTOR RESERVE SHUTDOWN 'OURS	0.0	0.0	6,466.5	
15. HOURS GENERATOR ONLINE	744.0	2,160.0	50,397.6	
16. UNIT RESERVE SHUTDOWN H AURS	0.0	0.0	0.0	
17. GROSS THERMAL ENERGY (ENERATED (MWH)	2,536,180.0	7,243,262.0	164,528,368.1	
18. GROSS ELECTRICAL ENERGY GENERATED (MWH)	882,862.5	2,515,290.0	56,682,935.1	
19. NET ELECTRICAL ENERGY GENERATED (MWH)	848,425.0	2,415,130.5	53,881,736.2	
20. UNIT SERVICE FACTOR	100.0	100.0	72.4	
21. UNIT AVAILABILITY FACTOR	100.0	100.0	72.4	
22. UNIT CAPACITY FACTOR (USING MDC NET)	100.3	98.3	68.0	
23. UNIT CAPACITY FACTOR (USING DER NET)	98.9	96.9	67.1	
24. UNIT FORCED OUTAGE RATE	0.0	0.0	16.6	
25. UNIT FORCED OUTAGE HOURS	0.0	0.0	10,004.9	
SHUTDOWNS SCHEDULED OVER NEXT SIX MONTHS (TYPE	, DATE, AND DURATION O	F 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:	April 4, 1994
COMPLETED BY	F. W. Bornt 203-447-1791 x 4823

MONTH March 1994

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	1141	16	1125
2	1143	17	1139
3	1144	18	1141
4	1145	19	1140
5	1142	20	1140
6	1143	21	1137
7	1145	22	1139
8	1141	23	1140
9	1140	24	1140
10	1143	25	1141
11	1142	26	1139
12	1141	27	1138
13	1141	28	1138
14	1144	29	1140
15	1143	30	1135
		31	1141

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO:	50-423
UNIT:	MILLSTONE UNIT 3
DATE:	April 4, 1994
COMPLETED BY:	F. W. Bornt
TELEPHONE:	203-447-1791 x 4823

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:

2: Reasons:

3: Method

4: IEEE Standard 805-1984

5:

IEEE Standard 803A-1983

F: Forced

S: Scheduled

- 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

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

REFUELING INFORMATION REQUEST

March 1994

- 1. Name of facility: Millstone 3.
- 2. Scheduled date for next refueling shutdown: May 27, 1995
- 3. Scheduled date for restart following refueling: August 10, 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): <u>193</u> (b): <u>332</u>

 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.

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.