

# 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

April 10, 1990  
MP-90-343

Re: 10CFR50.71(a)

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

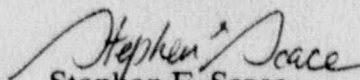
Reference: Facility Operating License No. NPF-49  
Docket No. 50-423

Dear Sir:

In accordance with reporting requirements of technical specifications Section 6.9.1.5, the Millstone Nuclear Power Station - Unit 3 Monthly Operating Report 90-04 covering operation for the month of March is hereby forwarded.

Very truly yours,

NORTHEAST NUCLEAR ENERGY  
COMPANY

  
Stephen E. Scace  
Director, Millstone Station

Attachment

cc: T.T. Martin, Region I Administrator  
W.J. Raymond, Senior Resident Inspector, Millstone Unit Nos. 1,2 & 3  
D.H. Jaffe, NRC Project Manager, Millstone Unit No. 3

9004190148 900331  
PDR ADOCK 05000423  
R PDC

TE24  
11

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

1. DOCKET.....50-423  
 2. REPORTING PERIOD...MARCH 1980  
 3. UTILITY CONTACT.....A. L. ELMS 203-444-5388  
 4. LICENSED THERMAL POWER.....3411  
 5. NAMEPLATE RATING (GROSS MWE).....1,253 MW  
 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

\*\*\*\*\*  
 \* MILLSTONE \*  
 \* UNIT 3 \*  
 \*\*\*\*\*

	MONTH	YEAR TO DATE	CUMULATIVE TO DATE
	=====	=====	=====
12. HOURS IN REPORTING PERIOD	744.0	2,160.0	34,536.0
13. NUMBER OF HOURS THE REACTOR WAS CRITICAL	667.8	2,045.8	27,721.7
14. REACTOR RESERVE SHUTDOWN HOURS	76.2	114.2	838.1
15. HOURS GENERATOR ONLINE	656.2	2,026.4	27,191.4
16. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
17. GROSS THERMAL ENERGY GENERATED (MWH)	2,177,643.0	6,702,877.0	89,978,286.4
18. GROSS ELECTRICAL ENERGY GENERATED (MWH)	752,593.5	2,325,252.0	31,007,892.0
19. NET ELECTRICAL ENERGY GENERATED (MWH)	718,246.0	2,220,227.5	29,575,596.2
20. UNIT SERVICE FACTOR	88.2	93.8	78.7
21. UNIT AVAILABILITY FACTOR	88.2	93.8	78.7
22. UNIT CAPACITY FACTOR (USING MDC NET)	64.9	90.4	75.0
23. UNIT CAPACITY FACTOR (USING DER NET)	83.7	89.1	74.2
24. UNIT FORCED OUTAGE RATE	11.8	6.2	9.2
25. UNIT FORCED OUTAGE HOURS	87.8	133.6	2,771.1
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 April 3, 1990  
COMPLETED BY A. L. ELMS 203-444-5388

MONTH March 1990

DAY AVERAGE DAILY POWER LEVEL  
(MWE - NET)

1	<u>1122</u>
2	<u>1138</u>
3	<u>1107</u>
4	<u>1138</u>
5	<u>1138</u>
6	<u>1139</u>
7	<u>1138</u>
8	<u>1136</u>
9	<u>787</u>
10	<u>0</u>
11	<u>0</u>
12	<u>420</u>
13	<u>1060</u>
14	<u>1137</u>
15	<u>1134</u>

DAY AVERAGE DAILY POWER LEVEL  
(MWE - NET)

16	<u>1137</u>
17	<u>1136</u>
18	<u>1135</u>
19	<u>1142</u>
20	<u>1127</u>
21	<u>1128</u>
22	<u>1103</u>
23	<u>1135</u>
24	<u>1135</u>
25	<u>1136</u>
26	<u>1132</u>
27	<u>1100</u>
28	<u>1125</u>
29	<u>1135</u>
30	<u>621</u>
31	<u>0</u>



## UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-423  
 UNIT NAME MILLSTONE 3  
 DATE 4-3-90  
 COMPLETED BY A. ELMS  
 TELEPHONE (203) 444-5388

No.	Date	Type (1)	Dura- tion Hours	Reason (2)	Method of Shut down Reactor(3)	Licensee Event Rept No.	System Code	Component Code	Cause and Corrective Action to Prevent Prevent Recurrence
90-03	03/09/90	F	53.2	A	3	90-009	TJ	TCV TC	Turbine and reactor trip due to high stator coolant temperature. Temperature controller will be relocated to low vibration area and replaced with a more reliable controller with manual over-ride capabilities.
90-04	03/30/90	F	34.6	H	2	90-011	KE	SCN	High differential level on the intake structure screens caused A and B circulating water pumps to trip. Manually tripped the reactor and turbine in anticipation of low condenser pressure.

1: F: Forced  
 S: Schedules

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

5: Exhibit 1 - Same Source

## REFUELING INFORMATION REQUEST

MARCH 1990

1. Name of facility: Millstone 3.
2. Scheduled date for next refueling shutdown: November 17, 1990.
3. Scheduled date for restart following refueling: Jan. 15, 1991
4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendments?

As a result of the new fuel design, Technical Specifications changes to the Axial Flux Difference, Heat Flux Hot Channel Factor, and Refueling Water Storage Tank sections will be required. Furthermore, the Fuel Storage section of Design Features will be changed to allow continued regionalized storage of spent fuel in the spent fuel pool. Also, the Instrumentation section will be changed to reflect a new High Flux at Shutdown setpoint.

5. Scheduled date for submitting licensing action and supporting information.

August 1, 1990.

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 4 fuel assemblies will be of the Westinghouse Vantage 5H design. This design includes debris filter bottom nozzles, intermediate flow mixing grids, integral fuel rod burnable absorbers, and axial blankets.

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

(a): 193      (b): 160

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.