

# 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

July 6, 1990  
MP-90-673

Re: 10CFR50.71(a)

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

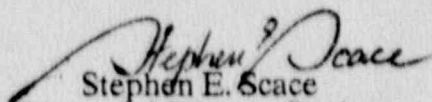
Reference: Facility Operating License No. NPF-49  
Docket No. 50-423

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 90-07 covering operation for the month of June 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

9007160057 900630  
PDR ADCK 05000423  
R PDC

*IE2A*  
*11*

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

1. DOCKET.....50-423  
 2. REPORTING PERIOD...JUNE 1990  
 3. UTILITY CONTACT.....A. L. EDMS 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).....1,127.0  
 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	720.0	4,343.0	36,719.0
13. NUMBER OF HOURS THE REACTOR WAS CRITICAL	674.2	3,499.6	29,175.5
14. REACTOR RESERVE SHUTDOWN HOURS	0.0	797.6	1,521.5
15. HOURS GENERATOR ONLINE	643.8	3,390.9	28,555.9
16. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
17. GROSS THERMAL ENERGY GENERATED (MWH)	1,991,239.0	10,664,757.0	93,940,166.4
18. GROSS ELECTRICAL ENERGY GENERATED (MWH)	681,844.5	3,675,520.5	32,358,160.5
19. NET ELECTRICAL ENERGY GENERATED (MWH)	648,141.1	3,475,668.3	30,831,037.0
20. UNIT SERVICE FACTOR	89.4	78.1	77.8
21. UNIT AVAILABILITY FACTOR	89.4	78.1	77.8
22. UNIT CAPACITY FACTOR (USING MDC NET)	79.2	70.4	73.6
23. UNIT CAPACITY FACTOR (USING DER NET)	78.0	69.4	72.8
24. UNIT FORCED OUTAGE RATE	8.2	21.6	11.1
25. UNIT FORCED OUTAGE HOURS	57.7	933.6	3,571.1

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

Refuel Outage - February 1 1991 (subject to CONVEK approval) - 45 days.

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

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-423  
 UNIT MILLSTONE UNIT 3  
 DATE July 3, 1990  
 COMPLETED BY A. L. ELMS 203-444-5388

MONTH June 1990

DAY	AVERAGE DAILY POWER LEVEL (MWE - NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE - NET)
1	<u>1144</u>	16	<u>37</u>
2	<u>1139</u>	17	<u>489</u>
3	<u>1139</u>	18	<u>1052</u>
4	<u>1141</u>	19	<u>1138</u>
5	<u>1139</u>	20	<u>1141</u>
6	<u>268</u>	21	<u>1142</u>
7	<u>0</u>	22	<u>1140</u>
8	<u>46</u>	23	<u>1139</u>
9	<u>675</u>	24	<u>1140</u>
10	<u>883</u>	25	<u>1138</u>
11	<u>889</u>	26	<u>1137</u>
12	<u>889</u>	27	<u>1136</u>
13	<u>885</u>	28	<u>1111</u>
14	<u>886</u>	29	<u>1100</u>
15	<u>746</u>	30	<u>1137</u>



## UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-423  
 UNIT NAME MILLSTONE 3  
 DATE 7-4-90  
 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
90-07	06/06/90	F	57.7	A	3	90-019-00	AA AB BA JC IG	CBL4 CL ROD DET	Automatic reactor trip due to negative rate trip caused by dropped rod. The dropped rod was caused by a broken connection in the stationary gripper coil power cable. Corrective action included replacing the broken connector, functional testing, and independent evaluation of the cable by a material testing facility to ascertain the failure mechanism. Potential long term corrective actions will be evaluated when the root cause analysis is complete.
90-08	06/15/90	S	18.5	B	N/A	N/A	SJ	RV	Removed unit from service to repair thermal relief valves on #1 feedwater heater. Reactor remained critical.

1: 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: 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

JUNE 1990

1. Name of facility: Millstone 3.
2. Scheduled date for next refueling shutdown: February 1, 1991 (awaiting CONVEX approval).
3. Scheduled date for restart following refueling: March 18, 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 of 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.