

# NORTHEAST UTILITIES



THE CONNECTICUT LIGHT AND POWER COMPANY  
WESTERN MASSACHUSETTS ELECTRIC COMPANY  
WOLYCKE WATER POWER COMPANY  
NORTHEAST UTILITIES SERVICE COMPANY  
NORTHEAST NUCLEAR ENERGY COMPANY

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April 5, 1988

Docket No. 50-423

B12873

Re: IE Inspection 86-12

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

- References:
- (1) R. W. Starostecki letter to J. F. Opeka, Resident Inspection 50-423/86-12, dated May 14, 1986.
  - (2) J. F. Opeka letter to R. W. Starostecki, Response to IE Inspection No. 50-423/86-12, dated June 12, 1986.
  - (3) E. J. Mroczka letter to NRC 50-423/86-12, dated August 27, 1987.

Gentlemen:

Millstone Nuclear Power Station, Unit No. 3  
Elimination of Unnecessary Annunciators

In Reference (1), Northeast Nuclear Energy Company (NNECO) was asked to review the Staff's concern regarding the high number of energized control room annunciators at Millstone Unit No. 3 which could adversely impact the control room operator's ability to respond adequately to abnormal or transient conditions. NNECO responded by describing a program to reduce the number of illuminated annunciators in References (2) and (3).

The purpose of this letter is to provide the status of the implementation plan to reduce illuminated control room annunciators. At completion of the first refueling outage, Millstone Unit No. 3 has eliminated seventeen annunciators and modified alarm logic of two annunciators. As an interim measure, an additional twenty annunciators were modified by changing the display color to green, indicating these annunciators may be illuminated during normal power operations.

Attachment 1 details modifications made during the first refueling outage and those planned for future refuelings.

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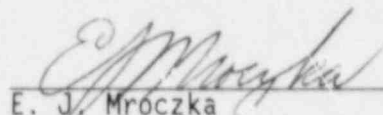
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If there are any questions regarding this submittal, please contact our licensing representative directly.

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY



E. J. Mroczka  
Senior Vice President

cc: W. T. Russell, Region I Administrator  
R. L. Ferguson, NRC Project Manager, Millstone Unit No. 3  
W. J. Raymond, Senior Resident Inspector, Millstone Unit Nos. 1, 2 and 3

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Attachment 1

Implementation Status - Elimination of  
Unnecessary Annunciator Windows

April 1988

Table 1  
Elimination of Unnecessary Annunciator Windows

A. The following annunciator windows were deleted.

<u>Alarm Location</u>	<u>Function</u>
1. MB1-A-1-5	Containment instrumentation air compressor A cooling water temperature high.
2. MB1-A-2-6A	Containment instrumentation air compressor A lube oil pressure low.
3. MB1-A-2-6B	Containment instrument air compressor A discharge temperature high.
4. MB1-A-2-7A	Containment instrument air compressor B lube oil pressure low.
5. MB1-A-2-7B	Containment instrument air compressor B discharge temperature high.
6. MB1-A-2-8	Containment instrument air header pressure low.
7. MB1-A-4-5	Containment instrument air compressor B cooling water temperature high.
8. MB1-B-1-3	Post accident sample panel door open.
9. MB1-B-4-4	Chlorine Room Chlorine high.
10. MB2-B-3-6A	Sequencer A door open.
11. MB2-B-3-6B	Sequencer B door open.
12. MB3-A-4-8	Charging pump aux. oil pump off.
13. MB3-B-4-8B	Boric Acid Batch tank temp. low.
14. MB4-C-1-2	Process Protection Set Door Open.
15. MB7-1-2-10B	Turbine L.O. dirty oil tank level low.
16. MB1-C-4-1B	Chiller A Condenser Water Flow low.
17. MB1-C-5-1B	Chiller B Condenser Water Flow low.

B. Alarm logic of the following annunciators was modified.

<u>Alarm Location</u>	<u>Function</u>
1. MB2-B-3-7	Hydrogen Recombiner Train A Trouble
2. MB2-B-3-8	Hydrogen Recombiner Train B Trouble

C. Alarm logic of the following annunciators will be modified. As an interim measure, the illuminated color of these annunciators was changed to green, indicating they may be expected during power operation.

<u>Alarm Location</u>	<u>Function</u>	<u>Schedule</u>
1. MB5-C-3-2A	Auxiliary Feedwater Pump A lube oil pressure low.	2nd Refueling
2. MB5-C-3-2B	Auxiliary Feedwater Pump B lube oil pressure low.	2nd Refueling
3. MB6-B-3-6	Turbine Plant Component Cooling Water heat Exchanger Service Water Outlet Pressure Low.	2nd Refueling
4. MB1-C-1-1B	Containment Recirculation Cooler Service Water Flow high/low.	3rd Refueling
5. MB1-C-1-4A	Chiller A Evaporator Outlet Temperature high.	3rd Refueling
6. MB1-C-1-4B	Chiller A Chilled Water flow low.	3rd Refueling
7. MB1-C-2-4A	Chiller B Evaporator Outlet Temperature high.	3rd Refueling
8. MB1-C-2-4B	Chiller B Chilled Water flow low.	3rd Refueling
9. MB1-C-3-4A	Chiller C Evaporator Outlet Temperature high.	3rd Refueling
10. MB1-C-3-4B	Chiller C Chilled Water flow low.	3rd Refueling

- D. Illuminated color of the following annunciators was changed to green; these may be expected during power operation. No additional work is planned.

<u>Alarm Location</u>	<u>Function</u>
1. MB4-C-4-1	Source Range Loss of Detector Voltage.
2. MB4-C-5-1	Source Range Shutdown Flux Hi, Blocked.
3. VP1-A-3-3	Control Building Chiller Condenser A Service Water Flow low.
4. VP1-C-3-3	Control Building Chiller Condenser B Service Water Flow low.
5. VP1-A-1-7	Containment Air Recirc Fan A Flow low.
6. VP1-C-1-7	Containment Air Recirc Fan C Flow low.
7. VP1-B-4-9	Containment Air Recirc Fan B Flow low.
8. VP1-A-2-8	Containment Air Recirc Cooler A Chilled Water Flow low.
9. VP1-B-2-3	Containment Air Recirc Cooler C Chilled Water Flow low.
10. VP1-C-2-8	Containment Air Recirc Cooler B Chilled Water Flow low.

- E. Setpoints of the following annunciator will be revised not later than third refueling outage.

<u>Alarm Location</u>	<u>Function</u>
1. MB3-B-2-4A	Boric Acid Tank A temperature high.
2. MB3-B-2-5A	Boric Acid Tank B temperature high.
3. MB3-B-4-4B	Boric Acid Tank A level low.
4. MB3-B-4-5B	Boric Acid Tank B level low.
5. MB3-B-5-4A	Boric Acid Tank A low-low level.
6. MB3-B-5-5A	Boric Acid Tank B low-low level.
7. MB6-B-3-9	MSR drain tank A level high/low.
8. MB6-B-4-9	MSR drain tank B level high/low.