

# NORTHEAST UTILITIES



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

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January 14, 1988

Docket No. 50-423  
B12789

Re: NUREG-0737,  
Supplement 1

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

- References:
- (1) Supplement 4 to NUREG-1031, Millstone Nuclear Power Station, Unit No. 3 Safety Evaluation Report, issued November, 1985.
  - (2) Supplement 5 to NUREG-1031, Millstone Nuclear Power Station, Unit No. 3 Safety Evaluation Report, issued January, 1986.
  - (3) E. J. Mroczka letter to U.S. Nuclear Regulatory Commission, License Condition - Safety Parameter Display System, dated November 13, 1987.
  - (4) E. J. Mroczka letter to U.S. Nuclear Regulatory Commission, License Condition - Safety Parameter Display System, dated December 24, 1987.
  - (5) W. G. Counsil letter to B. J. Youngblood, Transmittal of the Safety Parameter Display System-Safety Analysis Report, dated April 5, 1984.

Gentlemen:

Millstone Nuclear Power Station, Unit No. 3  
License Condition-Safety Parameter Display System

The NRC imposed a condition in the Millstone Unit No. 3 low power license, issued November 25, 1985, and full power license, issued January 31, 1986, that required Northeast Nuclear Energy Company (NNECO) to add four parameters to the Safety Parameter Display System (SPDS) or achieve one of the several specified alternative

resolutions (References (1) and (2)). This is to be accomplished prior to restart after the first refueling outage. The four parameters are: (i) residual heat removal (RHR) flow or Post-LOCA cooling variables, (ii) containment isolation, (iii) containment hydrogen concentration, and (iv) primary coolant system hot leg temperature.

In Reference (3), in order to resolve the license condition, NNECO committed to implement the following items prior to start-up following the first refueling outage:

- o Post-LOCA cooling variables will be directly accessible from a single function key within the SPDS core cooling critical function via a plant process computer (PPC) display.
- o The relative physical location of the primary SPDS and the current containment isolation display (on the engineered safety features panel) will be retained.
- o Containment hydrogen concentration will be directly accessible from a single function key within the SPDS containment critical safety function via a PPC display.
- o All wide-range hot leg temperatures will be directly accessible from a single function key within the SPDS core cooling critical safety function via a PPC display.

In Reference (4), NNECO informed the Staff that these commitments have been implemented during the first refueling outage. The purpose of this letter is to clarify the information provided in References (3) and (4) concerning the Post-LOCA cooling variables and hydrogen concentration displays. These displays are directly accessible from a single function key within the SPDS via a PPC display. As identified in Reference (3), we committed to satisfying the license condition by using alternative 4 in Reference (1). This alternative stipulates that the parameters could simply be available from the SPDS console, provided that they were defined as SPDS parameters. As such, these parameters are defined as SPDS variables. However, these displays do not necessarily meet the acceptance criteria defined in the SPDS Safety Analysis Report (Reference (5)) due to the unique nature of these displays.

As indicated in Reference (4), we will provide the results of our evaluation regarding Post-LOCA cooling variables and containment hydrogen concentration by the end of April 1988, and if determined feasible, the parameters will be implemented prior to start-up from the second refueling outage.

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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*

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E. J. Mroczka  
Senior Vice President

*C. F. Sears*

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By: C. F. Sears  
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