

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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March 14, 1985

Docket No. 50-423
B11481

Director of Nuclear Reactor Regulation
Mr. B. J. Youngblood, Chief
Licensing Branch No. 1
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Reference: B. J. Youngblood to W. G. Council, Safety Evaluation Report
(SER) Related to the Operation of Millstone Nuclear Power
Station, Unit No. 3 (NUREG-1031), dated July, 1984.

Dear Mr. Youngblood:

Millstone Nuclear Power Station, Unit No. 3
Responses to SER Confirmatory Item

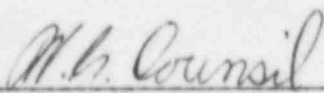
Enclosed is Northeast Nuclear Energy Company's response to SER Confirmatory Item 42 concerning TMI Action Item II.F.1, Accident Monitoring Instrumentation, positions (4), (5) and (6). This response should fully resolve the Staff's concern regarding this item.

If you have any questions, please contact our licensing representative directly.

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY
et. al.

BY NORTHEAST NUCLEAR ENERGY COMPANY
Their Agent



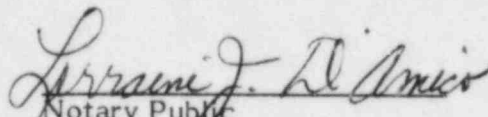
W. G. Council
Senior Vice President

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STATE OF CONNECTICUT)
) ss. Berlin
COUNTY OF HARTFORD)

Then personally appeared before me W. G. Counsil, who being duly sworn, did state that he is Senior Vice President of Northeast Nuclear Energy Company, an Applicant herein, that he is authorized to execute and file the foregoing information in the name and on behalf of the Applicants herein and that the statements contained in said information are true and correct to the best of his knowledge and belief.


Notary Public

My Commission Expires March 31, 1988

Millstone Unit No. 3

Confirmatory Items

Instrumentation and Control Systems Branch

SER-C42 NUREG-0737, Item II.F.1, Accident Monitoring Instrumentation, Positions (4), (5), and (6) (SER 7.5.2.4)

Positions (4), (5), and (6) of this Action Plan item require installation of extended range containment pressure monitors, containment water level monitors, and containment hydrogen concentration monitors. Table 7.5-1 of the FSAR indicated that the information on these parameters is as follows:

- (1) containment pressure (extended range)
 - (a) The instruments are environmentally and seismically qualified.
 - (b) The instrument range extended from 0 to 200 psia.
 - (c) Two channels are provided.
 - (d) Two indicators and one dual recorder are provided in the control room.
- (2) containment water level (wide range)
 - (a) The instruments are environmentally and seismically qualified.
 - (b) The instrument range extended from 0 to 1,500,000 gal.
 - (c) Two indicators are provided.
 - (d) Two indicators and one recorder are provided in the control room.
- (3) containment hydrogen monitor
 - (a) The instruments are environmentally and seismically qualified.
 - (b) The instrument range extended from 0% to 10%.
 - (c) Two channels are provided.
 - (d) Two indicators and one recorder are provided.

The information listed above satisfies the requirements of NUREG-0737, Item II.F.1, Positions (4), (5), and (6), except for the instrument accuracy requirement. This information should be provided and justified to be adequate for the intended function. This is a confirmatory item.

Response (3/85)

- (1) Containment Pressure (extended range):

Instrument loop accuracy during accident conditions = $\pm 7.8\%$ of span.

If during accident conditions the containment pressure exceeds 60 psia, then these instruments will provide the operators with trending information to aid them in determining the effectiveness of the engineered safety features. Therefore, this accuracy is acceptable.

(2) Containment water level (wide range):

Instrument span = 16 feet starting at approximately 1 foot above the bottom of the containment recirculation sump. This range is equivalent to approximately 4000 gallons to just over 1,500,000 gallons.

Instrument loop accuracy = ± 5.0 inches.

This instrument is used by the operators during an accident to verify that water is in the containment sump before allowing the containment spray recirculation pumps to start automatically. Before the recirculation pumps start, over 9000 gallons (approximately 8 inches of indication) will be in the sump and the corresponding level indicated in the control room. Therefore, this range and accuracy are acceptable.

(3) Containment hydrogen monitor:

Instrument accuracy = $\pm 2\%$ of full scale for a range of 0-10% hydrogen.

This instrument accuracy is acceptable for monitoring the hydrogen concentration inside the containment.

The above information should fully resolve the staff's concern regarding Confirmatory Item 42.

Status (3/85) Closed.