

NORTHEAST UTILITIES



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

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July 31, 1980

Docket No. 50-245
AC1073

Mr. Boyce H. Grier, Director
Region 1
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, PA 19406

Reference: (1) B. H. Grier letter to W. G. Council dated June 27, 1980.

Gentlemen:

Millstone Nuclear Power Station, Unit No. 1
Response to I&E Bulletin No. 80-16

In Reference (1), the NRC Staff requested information regarding Rosemount, Incorporated, Pressure Transmitters. In response to this request, Northeast Nuclear Energy Company (NNECO) provides the information below for Millstone Unit No. 1.

As also requested in Reference (1), and to assist the NRC in evaluating the value/impact of this Bulletin, we have determined that the manpower expended in conduct of tests and in the review and preparation of the reports required by the Bulletin is six professional man-days for Millstone Unit No. 1.

Item 1

Determine if your facility has installed or plans to install Rosemount, Incorporated, Model 1151 or 1152 pressure transmitters with output Codes "A" or "D" in any safety-related application.

Response

We have determined that we are planning to install eight Rosemount, Incorporated, Model 1152 pressure transmitters with output Code "A" for use in the Millstone Unit No. 1 Recirculation Pump Trip System to mitigate the consequences of an Anticipated Transient Without Scram (ATWS).

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Item 2

If it is determined that your facility has the transmitters described in Item 1 above in any safety-related application, determine whether they can be exposed to input pressures that could result in anomalous output signals during normal operation, anticipated transients or design bases accidents. If the affected transmitters can be exposed to input pressures that could result in anomalous output signals, perform a worst-case analysis to determine whether the anomalous signals could result in violating any design basis assumption. The safety-related application shall include control, protective or indication functions. If any safety-related application does not conform to the above requirements, address the basis for continued plant operation until the problem is resolved and provide an analysis of all potential adverse system effects which could occur as a result of a postulated pressure transmitter maloperation described in Enclosure 1 of this Bulletin. In each instance, the analysis should include the effects of postulated transmitter maloperation as it relates to indication, control, and protective functions. The analysis shall address both incorrect automatic system operation and incorrect operator actions caused by erroneous indications. Address the conformance to IEEE 279, Section 4.20 in your analysis. Include in your analysis the following table:

- a) Complete model number.
- b) Transmitter range limits.
- c) Transmitter range setting.
- d) Range of process variable measured for (1) normal and (2) accident conditions.
- e) Values of process variable which could produce anomalous indication based upon your evaluation.
- f) Service/function.

Response

Our evaluation has determined that the transmitters cannot be exposed to input pressures that could result in anomalous output signals during normal operation, anticipated transients, or design bases accidents.

This evaluation is based upon the information in the following tables:

Table I

- a) Model 1152 DP4A22PB (4 each)
- b) Transmitter range limits: 0 to 150 in. H₂O
- c) Transmitter range setting: -25.6 to -96.3 in. H₂O
- d) Range of process variable measured for
 - (1) normal conditions: -32.67 to -46.81 in. H₂O
 - (2) accident conditions: Trip point = -95.19 in. H₂O

- e) Values of process variable which could produce anomalous indication:
+ 210 in. H₂O or -210 in. H₂O.

Table II

- a) Model 152 GP9A22PB (4 each)
- b) Transmitter range limits: 0-3000 psig
- c) Transmitter range setting: 0-1500 psig
- d) Range of process variable measured for
- (1) normal conditions: 0-1035 psig
 - (2) accident conditions: Trip point = 1085 psig
- e) Values of process variable which could produce anomalous indication:
+4200 psig or -4200 psig.

Item 3

Submit a complete description of all corrective actions required as a result of your analysis and evaluations, together with the schedule for accomplishing the corrective actions.

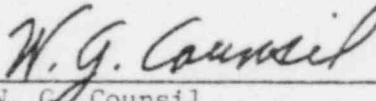
Response

No response is required since our evaluation determined that the transmitters could not be exposed to input pressures that could result in anomalous output signals.

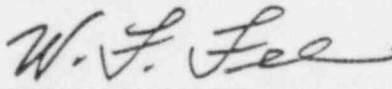
Should you have any questions, please contact us.

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY



W. G. Council
Senior Vice President

By: 
W. F. Fee
Executive Vice President