



**Commonwealth Edison**

One First National Plaza, Chicago, Illinois  
Address Reply to: Post Office Box 767  
Chicago, Illinois 60690

July 30, 1980

Mr. James G. Keppler, Director  
Directorate of Inspection and  
Enforcement - Region III  
U.S. Nuclear Regulatory Commission  
799 Roosevelt Road  
Glen Ellyn, IL 60137

Subject: Dresden Station Units 1, 2, and 3  
Quad Cities Station Units 1 and 2  
Zion Station Units 1 and 2  
Response to IE Bulletin 80-16  
"Potential Misapplication of  
Rosemount Inc. Models 1151  
and 1152 Pressure Transmitters  
With Either 'A' or 'D' Output Codes"  
NRC Docket Nos. 50-10/237/249,  
50-254/265 and 50-295/304

Reference (a): J. G. Keppler letter to C. Reed dated  
June 27, 1980

Dear Mr. Keppler:

Reference (a) transmitted IE Bulletin 80-16 requesting a response to concerns identified with certain models of Rosemount Inc. pressure transmitters. Commonwealth Edison Company's responses for Dresden Units 1, 2 and 3, Quad Cities Units 1 and 2, and Zion Units 1 and 2 are provided in the enclosure to this letter.

Please address any questions you may have concerning this matter to this office.

Very truly yours,

FOR/ D. L. Peoples  
Director of  
Nuclear Licensing

Enclosure

cc: U.S. Nuclear Regulatory Commission  
Office of Inspection and Enforcement  
Division of Reactor Operations Inspection  
Washington, DC 20555

AUG 1 1980

8008180077

Q

Enclosure  
Commonwealth Edison Company  
Response to IE Bulletin 80-16

Dresden Unit 1

We have investigated the use of Rosemont Inc. model 1151 and 1152 pressure transmitters for Dresden Unit #1. Only model 1152 transmitters (with output code "D") are planned for use on the unit, in conjunction with the HPCI and ATWS modification projects.

Our investigation has shown that none of these transmitters will experience process conditions approaching 100% under, and 40% over, calibration range excursions discussed in the subject Rosemont letter. We have therefore concluded that there are no unreviewed safety questions concerning the use of Rosemont model 1152 pressure transmitters for Dresden Unit #1 modifications.

Dresden Units 2 and 3 and Quad Cities Units 1 and 2

We have reviewed our facilities and determined that the only application of Rosemount Inc. Model 1151 or 1152 pressure transmitters with output codes "A" or "D" in a safety related application is in a new system which is not yet in service. This is the ACAD/CAM (Atmospheric Containment Atmosphere Dilution/Containment Atmosphere Monitor) system, which contains four (4) model 1152 transmitters for each unit.

We have ordered Rosemount Model 1153 Transmitter to replace all of the 1152 Transmitters referenced above. These replacements will be installed before the systems are placed in service (the scheduled service date is January 1, 1981).

The attached table provides the information requested in the bulletin for the four (4) transmitters assuming they had remained installed in the system. These Model 1152 transmitters in the ACAD/CAM system on each unit could have been subjected to greater than 140% of the upper range limit for a momentary transient condition. These transmitters were to be used as sensors for flow control valves to regulate the air flow in the system. The reduced output from the transmitter under the overpressure condition could cause the flow control valves to fail to close under this momentary condition.

Zion Units 1 and 2

We have reviewed our facilities at Zion Station and have determined that there are no Rosemount Model 1151 or 1152 pressure transmitters with output codes "A" or "D" currently in use or in stock at this time.

However, there are three Rosemount Model 1152 transmitters (output code "D") on order for possible replacement of existing transmitters. Should these transmitters be targeted for any safety-related application, the station will notify the NRC prior to use. A detailed evaluation as required by Item 2 of the bulletin will also be performed prior to use and will be available for review at the site. Transmitter application will be limited to the acceptable values and ranges described in Rosemont's technical description enclosed with the bulletin.

In addition to the above measures, site Quality Control has been informed of these concerns with on the incoming transmitters and they will place hold cards as well as issue a discrepancy report on this equipment upon receipt. This report will be closed out prior to any plant installation of these transmitters.

5647A

Transmitter Service	Cont. Atmos. Vent Flow to SBT-Train "A"	Cont. Atmos. Vent Flow to SBT-Train "B"	Cont. Atmos. Inlet Air Flow Train "A"	Cont. Atmos. Inlet Air Flow Train "B"
Model No. - " " " "	1152DP3A22BP	1152DP3A22BP	1152DP3A22BP	1152DP3A22BP
Range Limits	0 - 30" H <sub>2</sub> O	0 - 30" H <sub>2</sub> O	0 - 30" H <sub>2</sub> O	0 - 30" H <sub>2</sub> O
Range of Variable Measured - Normal	SYSTEM	NOT	IN	SERVICE
Range of Variable Measured-Accident	0 - 35 SCFM = 0 - 27.22" H <sub>2</sub> O	0 - 35 SCFM = 0 - 27.22" H <sub>2</sub> O	0 - 35 SCFM = 0 - 20" H <sub>2</sub> O	0 - 35 SCFM = 0 - 20" H <sub>2</sub> O
Max. Value of Variable to Transmitter (Momentary)	Approx. 210-260 SCFM = 1000 - 1500" H <sub>2</sub> O	Approx. 210-260 SCFM = 1000 - 1500" H <sub>2</sub> O	Approx. 260-300SCFM = 100 - 125" H <sub>2</sub> O	Approx. 260-300 SCFM = 100 - 125" H <sub>2</sub> O