

NRC Form 366
(9-83)U.S. Nuclear Regulatory Commission
Approved OMB No. 3150-0104

LICENSEE EVENT REPORT (LER)

Facility Name(1) Maine Yankee Atomic Power Company										Docket Number(2) 0 5 0 0 0 3 0 9				Page(3) 1 of 3														
Title(4) Differential Pressure Transmitters Improperly Installed and Maintained for Environmental Qualification																												
Event Date(5)			LER Number(6)				Report Date(7)			Other Facilities Involved(8)																		
Month	Day	Year	Year	Sequential	Revision	Month	Day	Year	Facility Names			Docket Number(s)																
				Number	Number																							
1	0	1	0	8	5	8	5	-	0	1	3	-	0	0	1	1	1	3	8	5	0	5	0	0	0	3	0	9
Operating Mode (9) 1 This Report is Submitted Pursuant to the Requirements of 10 CFR § (Check one or more of the following) (11)																												
Power Level (10)		0		0		0		20.402(b)		20.405(c)		50.73(a)(2)(iv)		73.71(b)														
								20.405(a)(1)(i)		50.36(c)(1)		50.73(a)(2)(v)		73.71(c)														
								20.405(a)(1)(ii)		50.36(c)(2)		50.73(a)(2)(vii)		Other (Specify in														
								20.405(a)(1)(iii)		50.73(a)(2)(i)		50.73(a)(2)(viii)(A)		Abstract below														
								20.405(a)(1)(iv)		50.73(a)(2)(ii)		50.73(a)(2)(viii)(B)		and in Text, NRC														
								20.405(a)(1)(v)		50.73(a)(2)(iii)		50.73(a)(2)(x)		Form 366A)														

LICENSEE CONTACT FOR THIS LER (12)

NAME Danny P. McDougald, Nuclear Safety Engineer										Telephone Number Area Code 2 0 7 8 8 2 6 3 2 1					
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COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

Cause	System	Com- ponent	Manufac- turer	Reportable to NPRDS	Cause	System	Com- ponent	Manufac- turer	Reportable to NPRDS
Supplemental Report Expected (14)									
(If yes, complete Expected					Expected Month Day Year				
Submission Date)					Submission Date(15)				
Yes					X No				

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

On October 10, 1985, during the refueling outage, several transmitters were determined to be improperly installed to assure the maintenance of the environmental qualification standards set forth in 10 CFR 50.49. These were Rosemount 1153 Series D pressure transmitters, installed in the containment during the 1982 refueling outage, for pressurizer level, pressurizer pressure, and steam generator level.

The installation/maintenance requirements that were lacking were: (1) a specific grease on the transmitter cover o-rings, (2) a thread sealant on the transmitter-to-seal assembly threaded connection, and (3) a specified torque value for the threaded connection.

These discrepancies were corrected during the 1985 refueling outage. The Plant Engineering Department is currently reviewing existing calibration and maintenance procedures on environmentally qualified equipment to determine if any additional procedural controls are necessary.

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TEXT (If more space is required, use additional NRC Form 366A's) (17)

On October 10, 1985, during the refueling outage, an operator and a quality assurance engineer inspected a CONAX type electrical conductor seal assembly and found the transmitter-to-seal assembly threaded connection only hand-tight. The transmitter was a safety class Rosemount model 1153 Series D differential pressure transmitter (PT). The transmitter was installed in the containment and was used to measure steam generator (SG) level. It is required to be environmentally qualified per 10CFR50.49 for continued operation while exposed to a harsh environment.

This finding led the quality assurance engineer to examine the Rosemount transmitter qualification document review package, available onsite, for a detailed comparison of the vendor test report parameters to Maine Yankee service conditions, including installation and maintenance requirements necessary to maintain environmental qualification. The engineer concurrently notified the Plant Engineering Department and the Yankee Nuclear Services Division Equipment Qualification Coordinator for Maine Yankee. The combined investigation revealed several installation and maintenance differences in the "as tested" requirements for maintaining the environmental qualification of the Rosemount transmitters compared to the as installed conditions. The additional requirements included the use of: (1) a specific grease on the transmitter cover o-rings, (2) a thread sealant on the transmitter-to-seal assembly threaded connection, and (3) a specified torque value for the threaded connection.

This equipment was installed in 1982 using then current manufacturer installation instructions. The equipment qualification tests for this equipment had not yet been completed, but Maine Yankee decided to proceed with the installation of the equipment so as not to delay compliance with the new NRC equipment qualification requirements. The manufacturer installation instructions for the CONAX seal assembly and the Rosemount transmitter were revised following the completion of the equipment qualification testing. The revised instructions were not applied to equipment which had already been installed.

Corrective actions to eliminate the deficiencies were taken by the Plant Engineering Department and Yankee Nuclear Services Division during the 1985 refueling outage. All Rosemount model 1153 series D environmental qualification related transmitter seal assemblies in the containment for Pressurizer (PZR) level, pressurizer pressure, and steam generator level were rebuilt. A grafoil thread sealant on the seal assembly-to-transmitter threaded connection was installed and seal assemblies were retorqued to the specified value. The cover o-rings were replaced and greased as specified in the Rosemount manual, and the covers were retorqued to the specified value. All equipment in the Environmental Qualification Program has been checked and the equipment is installed in accordance with its Qualification Documentation Review.

NRC Form 366A
(9-83)

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TEXT (If more space is required, use additional NRC Form 366A's) (17)

The Plant Engineering Department is currently reviewing existing calibration and maintenance procedures on environmentally qualified equipment to determine if any additional procedural controls are necessary.

1. The qualification documentation review procedure in the Environmental Qualification Program Manual will be revised to ensure the incorporation of any new vendor information and the environmental qualification of installed equipment will be checked to ensure that the requirements of any revised qualification documentation reviews are met.



ATOMIC POWER COMPANY •

EDISON DRIVE
AUGUSTA, MAINE 04336
(207) 623-3521

November 13, 1985
MN-85-192

GDW-85-283

Director, Office of Nuclear Reactor Regulation
United States Nuclear Regulatory Commission
Washington, D. C. 20555

Attention: Document Control Desk

Reference: License No. DPR-36 (Docket 50-309)

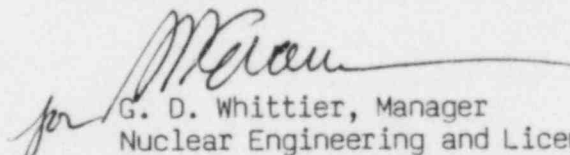
Subject: Maine Yankee Licensee Event Report 85-013-00 - Differential Pressure
Transmitters Improperly Installed and Maintained for Environmental
Qualification

Gentlemen:

Please find enclosed Maine Yankee Licensee Event Report #85-013-00. This
report is submitted in accordance with the requirements of
10 CFR 50.73(a)(2)(v).

Very truly yours,

MAINE YANKEE ATOMIC POWER COMPANY


G. D. Whittier, Manager
Nuclear Engineering and Licensing

GDW:bjp

Enclosure: Three pages

cc: Mr. Edward J. Butcher, Jr.
Dr. Thomas E. Murley
Mr. Cornelius F. Holden

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