

GULF STATES UTILITIES CO.

March 31, 1992 RBG- 36692 File No. G9.5, G9.33.1

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

Gentlemen:

River Bend Station - Unit 1 Docket No. 50-458

By letter dated July 20, 1990 (RBG-33277), Gulf States Utilities Company (GSU) provided our response to NRC Bulletin 90-01, "Loss of Fill Oil in Transmitters Manufactured by Rosemount". This response stated in part that preventative maintenance procedures were being revised to include additional calibration check points for non-STP transmitters to provide the data necessary to fully assess the loss of fill-oil concern. Our response further stated that during these evaluations, any transmitters identified as having a failure mode associated with the loss of fill-oil problem would be identified to the NRC.

During routine activities, a trip unit which actuates on low reactor plant component cooling water pressure was found to have been tripped for no apparent reason on September 22, 1991. Investigation by maintenance personnel discovered that the transmitter (Serial No. 404038) was out of calibration and could not properly be calibrated. This subject transmitter was at that time replaced with a new transmitter from stock. The defective transmitter was then returned to Rosemount for failure analysis on October 1, 1992. Rosemount's attached report concluded that the transmitter in question failed due to loss of filloil. Any subsequent Rosemount transmitter failures attributed to the loss of fill-oil concern will be identified to the NRC as before. If you have any questions or comments, please contact Mr. Leif L. Dietrich of my staff at (504) 381-4866.

Sincerely,

W. H. Odell Manager - Oversight River Bend Nuclear Group

Attachment

C: U. S. Nuclear Regulatory Commission
611 Ryan Plaza Drive, Suite 400
Arlington, TX 76011

NRC Resident Inspector P.O. Box 1051 St. Francisville, LA 70775

Mr. D. V. Pickett U.S. Nuclear Regulatory Commission 11555 Rockville Pike Rockville, MD 20852



Resemount inc.

Eden Pranie: MN 35344 USA Tel 1612(841 1560

February 21, 1992

Field Return Analysis

Customer:

Gulf States

Model Number: 1153GB7

Serial Nurber: 404038

House Order Number: 958137 (RMA Number)

Reason tor Return: Output fell from 100 to 59 psi

Preliminary Evaluation

The unit was too slow to calibrate upon receipt. The oil level was measured and found to be low on the high pressure side of the sensor. The module was sent to the Evaluation Lab for further analysis.

Final Evaluation

The module was cut open and the "ensor removed. Oil residue was detected inside the module housing. Welds and fill tube seals were inspected and found to be good. The sensor was then static pressurized to 4500 psi with evidence of oil leakage observed on the high pressure side of the sensor between the glass to metal interface.

S. M. WIY

The cause for failure is leakage of oil from the sensor by way of the glass to metal interface.

Rosemount has implemented several process improvements to reduce the risk of this type of leak. We have also implemented a second high pressure aging step after oil fill to verify the glass to metal seals.

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Luclear Engineering Nuclear Quality Assurance

		G	E KMA7958137	RMA7958137 Reinder one invoice PO. showing PO. Release Number wh				
	MAT	ERIAL	and WORK AUTHORIZATION	NO	YES NO		Page 1 of _7	
	To: ROSEMOUNT INC.			SHIP VIA	MWA NO	Rei No A No 30607 REV NO		
		120	DI TECHNOLOGY DRIVE		Date	10-1	19 9	
		EDE	N PRAIRIE, MN 55344	SHIP TO				
Date Item or Service Required					T STATES UTILITIES COMPANY RIVER BEND STATION IWY 61-2 MILES SOUTH OF T FRANCISVILLE LA 70775 INCLUDE PACKING LIST WITH SHIPMENT			
MWA ITEM NO	P Q LINE ITEM	QTY U/M	DESCRIPTION			UNIT COST	TOTAL COST	
		EA ROSEHOUNT TRANSMITTER, MODEL NO. 1153 GB7, S/N: 404038						
			(REF. MWOK 169711, ICCP#PTIB) (RMA# 958137-ROSEMOUNT)					
			NOTE : TRANSMITTER RESPONDED SLOWLY,					
			AND WOULD NOT CALIBRATE ABOVE 12				an a sa ta sa ana ana ara	
			(NOTE : TRANSMITTER IS RETURNED TO					
			WAREHOUSE VIA SI	R # 53652)	ead			
CONFIRMING TOONON						TOTAL AMOUNT		
			DATEDATE	GULF STATES	11711-1716-0	COMPANY		
TECHNICAL STAFF AUTHORIZATION					SUCCES			
GUALITY ASSURANCE AUTHORIZATION For QA Program Adulcade Only - What - Buggater				By Date				

Canary - Accounting

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M. DUS NUS

Rosemount Inc. 12001 Technology Drive Eden Prame MN 58344 U 5 A 101 (612) 841 5560 Telex 4310012 Fax (612) 828-3088

PRESSURE TRANSMITTER FAILURE SURVEY

MWA# 30607

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PLANT: RIVER BEND UTILITY: Cour States Unities TELEPHONE: (504) 381 - 4205 CONTACT PERSON: ERKAN BORAZANCI SERIAL NUMBER: 404038 MODEL NUMBER: 1153687 DATE OF RETURN TO ROSEMOUNT: _____ TAG NUMBER: 1000 TIB APPLICATION (e.g. Main Steamline, Pressurizer level): HEADER PRESSER PROCESS FLUID: WATER 4 MA = O'PSIG CALIBRATION: 20 mA = 100 PSIG TRANSMITTER POWER SUPPLY VOLTAGE: 24 VDC WAS THIS A REDUNDANT MEASUREMENT: Yes X No How Many 4 DATE INSTALLED: 12-20-33 DATE REMOVED FROM SERVICE: 9-24-91 (If different from Failure Date) FAILURE DATE: 9-22-91 TIME SENSING PRESSURE: Describe in exact detail the symptoms associated with the failure The reading on master trip unit for this transmitter feld have mode. to 59 psis with a reason the other three channel remained agendand long meet letter and in poil and the

QUESTIONS:

24 '91 08:35 RUSEMUUNT - NUCLEAR

ROSEMOI

Measurement

Cunital

Valves

Analytical

1) What are the typ cal ambient conditions associated with the above application?

Ave. Ambient Temp: 75 °F Vibration: Negligible Hz Ambient Temp range 70-90 or Relative Humidity: 20-95%