



GULF STATES UTILITIES COMPANY

RIVER BEND STATION POST OFFICE BOX 220 ST. FRANCISVILLE, LOUISIANA 70775
AREA CODE 504 535-6084 346-8651

March 11, 1993
RBG-38,223
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U. S. Nuclear Regulatory Commission
Document Control Desk
Washington, D. C. 20555

Gentlemen:

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

This letter provides Gulf States Utilities Company's (GSU) response to NRC Bulletin 90-01, Supplement 1, "Loss of Fill Oil in Transmitters Manufactured by Rosemount". The NRC has requested that licensees identify and monitor or replace certain Rosemount Models 1153 Series B, 1153 Series D, and 1154 transmitters manufactured before July 11, 1989. The transmitters of greatest concern, in the case of River Bend Station (RBS), are those with normal operating pressures above 500 psi that are used or may be used in the future in either safety-related systems or systems installed in accordance with 10CFR50.62 (the ATWS rule). RBS has taken or will complete by the next refueling outage the actions requested in the bulletin's supplement.

RBS currently has installed 102 Rosemount Model 1153 Series B and 1154 transmitters which perform safety-related actuation functions. None of these have normal operating pressures above 1500 psi. Thirteen (13) of the 102 have normal operating pressures between 500 and 1500 psi. These transmitters are listed in Attachment 1. The remaining 89 transmitters in this group have normal operating pressures well below 500 psi. These transmitters are excluded from an enhanced surveillance program as described in the supplement and are listed in Attachment 2.

Eight (8) of the thirteen transmitters with operating pressures above 500 psi have been replaced with ones having sensing modules manufactured after July 11, 1989 (new style sensing modules), as indicated by the "A" suffix on their serial numbers listed on Attachment 1. Four (4) of the remaining transmitters listed on Attachment 1, 1E33*PTN002, *PTN005, *PTN022, and *PTN025, have not been replaced, but have been installed and subjected to an operating pressure of approximately 1000 psi since plant start-up in 1985. After accounting for reduced pressure during outage periods, the transmitters have exceeded the 60,000 psi-month criteria for time in service and are, therefore, excluded from an enhanced surveillance program as described in the bulletin supplement.

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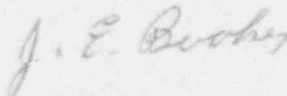
The one remaining transmitter listed on Attachment 1 is 1E31*PDTN088A, a sensor for one of four redundant Main Steam Line "C" instrument channels providing a trip input to the main steam isolation valve closure logic on high flow. This transmitter has not been replaced nor has it reached its psi-month maturity. RBS Technical Specifications require that a minimum of two channels remain operable for each main steam line. Should this transmitter have an undetected failure due to loss of fill-oil, RBS could continue to operate with three operable instrument channels. Additionally, each of the other three main steam lines has four high flow channels. The transmitter was last calibrated on June 4, 1992 and is scheduled to be replaced with a transmitter which has a new-style sensing module during the next refueling outage scheduled to begin March 12, 1994. Because this period is less than the 24 months discussed in the supplement and adequate redundancy is ensured, RBS considers this sufficient justification for not implementing an enhanced surveillance program for this transmitter prior to its replacement.

All RBS transmitters covered by this bulletin, based on the above summary, are either subject to exclusion from an enhanced surveillance program in accordance with the supplement, or have been or will be replaced with instruments which have new style sensing modules. The requested actions of the supplement will then be completed without the necessity of an enhanced surveillance program. RBS, therefore, will not implement an enhanced surveillance program for Rosemount transmitters.

As a means of avoiding the potential for future loss of fill-oil problems, all Model 1153 and 1154 transmitters in RBS spare parts inventory have been upgraded to only include new style sensing modules. Furthermore, both operators and instrument maintenance technicians have been trained to recognize loss of fill-oil symptoms. Instrument maintenance technicians, as part of their initial on-site training, are instructed in recognizing loss of fill-oil symptoms. This training along with continued performance of scheduled preventive maintenance tasks and normal surveillances will ensure with a high degree of confidence that any future transmitter failure as a result of this phenomena will be detected.

If there are any further questions or comments, please contact Mr. L. L. Dietrich at (504) 381-4866.

Sincerely,



J. E. Booker
Manager-Safety Assessment
and Quality Verification

Attachments

JRH/PEF/LAE/LLD/WJS/TWK/kvm

cc: U.S. Nuclear Regulatory Commission
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UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

STATE OF LOUISIANA)

PARISH OF WEST FELICIANA)

In the Matter of)

GULF STATES UTILITIES COMPANY)

Docket No. 50-458

(River Bend Station - Unit 1)

AFFIDAVIT

J. E. Booker, being duly sworn, states that he is a Manager-Safety Assessment and Quality Verification for Gulf States Utilities Company; that he is authorized on the part of said company to sign and file with the Nuclear Regulatory Commission the documents attached hereto; and that all such documents are true and correct to the best of his knowledge, information and belief.

J. E. Booker
J. E. Booker

Subscribed and sworn to before me, a Notary Public in and for the State and Parish above named, this 11th day of March, 1993. My Commission expires with Life.

Claudia F. Hurst
Claudia F. Hurst
Notary Public in and for
West Feliciana Parish, Louisiana

ROSEMOUNT MODEL 1153 AND 1154 TRANSMITTERS
WHICH PERFORM A SAFETY RELATED ACTUATION FUNCTION
WITH NORMAL OPERATING PRESSURES BETWEEN 500 AND 1500 PSI

| MARK NUMBER | MODEL NUMBER | SERIAL NUMBER | APPROX. NORMAL OPERATING PRESSURE (PSIG) | SERVICE DESCRIPTION |
|----------------|-----------------|------------------|--|---|
| 1B21*LTN073C | 1154DP5RBN0037 | 413889A | 1025 | Reactor Vessel Water Level Control of HPCS |
| 1B21*LTN073G | 1154DP5RBN0037 | 413892A | 1025 | Reactor Vessel Water Level Control of HPCS |
| 1B21*LTN073L | 1154DP5RBN0037 | 413309A | 1025 | Reactor Vessel Water Level Control of HPCS |
| 1B21*LTN073R | 1154DP5RBN0037 | 413891A | 1025 | Reactor Vessel Water Level Control of HPCS |
| 1B21*LTN091A | 1154DP5RBN0037 | 402512A | 1025 | Reactor Vessel Water Level |
| 1B21*LTN091B | 1154DP5RBN0037 | 420830A | 1025 | Reactor Vessel Water Level |
| 1B21*LTN091E | 1154DP5RBN0037 | 416425A | 1025 | Reactor Vessel Water Level |
| 1B21*LTN091F | 1154DP5RBN0037 | 413890A | 1025 | Reactor Vessel Water Level |
| 1E31*PDTN088A | 1153DB7 | 418363 | 1000 | Main Steam Line Flow |
| 1E33*PTN002 | 1153AB6PA | 413729 | 1000 | Reactor Inboard MSIV Positive Leakage Control |
| 1E33*PTN005 | 1153AB6 | 207913 | 1000 | Steam Line Inboard MSIV Positive Leakage Pressure |
| 1E33*PTN022 | 1153AB6PA | 413500 | 1000 | Reactor Outboard MSIV Positive Leakage Control |
| 1E33*PTN025 | 1153AB6 | 305247 | 1000 | Main Steam Line Outboard MSIV Pos. Leakage Press. |

ROSEMOUNT MODEL 1153 AND 1154 TRANSMITTERS
WHICH PERFORM A SAFETY RELATED ACTUATION FUNCTION
WITH NORMAL OPERATING PRESSURES BELOW 500 PSI

| MARK NUMBER | MODEL NUMBER | SERIAL NUMBER | APPROX. NORMAL OPERATING PRESSURE (PSIG) | SERVICE DESCRIPTION |
|----------------|-----------------|------------------|--|---|
| 1B21*PTN067C | 1154DP4RB | 402513 | 0 | Drywell Pressure |
| 1B21*PTN067G | 1154DP4RB | 402519 | 0 | Drywell Pressure |
| 1B21*PTN067L | 1154DPRB | 402514 | 0 | Drywell Pressure |
| 1B21*PTN067R | 1154DP4RB | 402515 | 0 | Drywell Pressure |
| 1B21*PTN094A | 1154DP4RB | 413445 | 0 | Drywell Pressure |
| 1B21*PTN094B | 1154DP4RB | 402517 | 0 | Drywell Pressure |
| 1B21*PTN094E | 1154DP4RB | 413658 | 0 | Drywell Pressure |
| 1B21*PTN094F | 1154DP4RB | 402516 | 0 | Drywell Pressure |
| 1C71*PTN050A | 1154DP4RB | 413663 | 0 | Drywell Pressure |
| 1C71*PTN050B | 1154DP4RB | 413659 | 0 | Drywell Pressure |
| 1C71*PTN050C | 1154DP4RB | 413661 | 0 | Drywell Pressure |
| 1C71*PTN050D | 1154DP4RB | 413662 | 0 | Drywell Pressure |
| 1CCP*PT1A | 1153GB7 | 404037 | 85 | Component Cooling Water Plant Supply Pressure |
| 1CCP*PT1B | 1153GB7 | 501445 | 85 | Component Cooling Water Plant Supply Pressure |
| 1CCP*PT1C | 1153GB7 | 404039 | 85 | Component Cooling Water Plant Supply Pressure |
| 1CCP*PT1D | 1153GB7 | 404040 | 85 | Component Cooling Water Plant Supply Pressure |
| 1CCP*PT1E | 1153GB7 | 404041 | 85 | Component Cooling Water Plant Supply Pressure |
| 1CCP*PT1F | 1153GB7 | 404743 | 85 | Component Cooling Water Plant Supply Pressure |
| 1CCP*PT1G | 1153GB7 | 404043 | 85 | Component Cooling Water Plant Supply Pressure |
| 1CCP*PT1H | 1153GB7 | 404044 | 85 | Component Cooling Water Plant Supply Pressure |
| 1E22*FTN056 | 1154DP4R | 402511 | 48 | HPCS Pump Discharge Flow |
| 1E22*LTN055C | 1153GB3 | 404437 | 1 | Supression Pool Water Level |
| 1E22*LTN055G | 1153GB3 | 404438 | 1 | Supression Pool Water Level |
| 1E33*PTN021 | 1153AB7PA | 418557 | 115 | MSIV Positive Leakage Control Air Supply |
| 1E51*LTN036A | 1153DB3PA | 413964 | 1 | Supression Pool Water Level |
| 1E51*LTN036E | 1153DB3PA | 412793 | 1 | Supression Pool Water Level |
| 1EGF*LT16A | 1153DB4PA | 411627 | 3 | Diesel Generator Fuel Oil Day Tank Level |
| 1EGF*LT16B | 1153DB4PA | 404661 | 3 | Diesel Generator Fuel Oil Day Tank Level |

ROSEMOUNT MODEL 1153 AND 1154 TRANSMITTERS
WHICH PERFORM A SAFETY RELATED ACTUATION FUNCTION
WITH NORMAL OPERATING PRESSURES BELOW 500 PSI

| MARK NUMBER | MODEL NUMBER | SERIAL NUMBER | APPROX. NORMAL OPERATING PRESSURE (PSIG) | SERVICE DESCRIPTION |
|----------------|-----------------|------------------|--|--|
| 1EGF*LT16C | 1153DB4PA | 404662 | 3 | Diesel Generator Fuel Oil Day Tank Level |
| 1HVK*FTX5A | 1153DB4PA | 418166 | 60 | Chilled Water Flow to Control Building Chiller |
| 1HVK*FTX5B | 1153DB4PA | 403985 | 60 | Chilled Water Flow to Control Building Chiller |
| 1HVK*FTX5C | 1153DB4PA | 404664 | 60 | Chilled Water Flow to Control Building Chiller |
| 1HVK*FTX5D | 1153DB4PA | 403986 | 60 | Chilled Water Flow to Control Building Chiller |
| 1HVK*FTY5A | 1153DB4PA | 403987 | 60 | Chilled Water Flow to Control Building Chiller |
| 1HVK*FTY5B | 1153DB4PA | 403988 | 60 | Chilled Water Flow to Control Building Chiller |
| 1HVK*FTY5C | 1153DB4PA | 403989 | 60 | Chilled Water Flow to Control Building Chiller |
| 1HVK*FTY5D | 1153DB4PA | 403990 | 60 | Chilled Water Flow to Control Building Chiller |
| 1HVK*LT1A | 1153DB3PA | 407728 | 60 | Control Bldg. Chilled Water Compression Tank Level |
| 1HVK*LT1B | 1153DB3PA | 407729 | 60 | Control Bldg. Chilled Water Compression Tank Level |
| 1HVR*PDT60A | 1153DB3PA | 408540 | 0 | Containment to Annulus Differential Pressure |
| 1HVR*PDT60B | 1153DB3PA | 415273 | 0 | Containment to Annulus Differential Pressure |
| 1HVR*PDT60C | 1153DB3PA | 404543 | 0 | Containment to Annulus Differential Pressure |
| 1HVR*PDT60D | 1153DB3PA | 408543 | 0 | Containment to Annulus Differential Pressure |
| 1HVR*PDT60E | 1153DB3PA | 408544 | 0 | Containment to Annulus Differential Pressure |
| 1HVR*PDT60F | 1153DB3PA | 416901 | 0 | Containment to Annulus Differential Pressure |
| 1IAS*PT47A | 1153GB7 | 404728 | 115 | Inst. Air Accumulator Tank Supply Header Pressure |
| 1IAS*PT47B | 1153GB7 | 404729 | 115 | Inst. Air Accumulator Tank Supply Header Pressure |
| 1IAS*PT48A | 1153GB7 | 404730 | 115 | Inst. Air Accumulator Tank Supply Header Pressure |
| 1IAS*PT48B | 1153GB7 | 404731 | 115 | Inst. Air Accumulator Tank Supply Header Pressure |
| 1IAS*PT49A | 1153GB7 | 404732 | 115 | Inst. Air Accumulator Tank Supply Header Pressure |
| 1IAS*PT49B | 1153GB7 | 404733 | 115 | Inst. Air Accumulator Tank Supply Header Pressure |
| 1LSV*PT10A | 1153GB6 | 410100 | 120 | Penetration Leakage Control Main Air Supply Header |
| 1LSV*PT10B | 1153GB6 | 418334A | 120 | Penetration Leakage Control Main Air Supply Header |
| 1LSV*PT12A | 1153GB6 | 410687 | 120 | Leakage Control Air Header Press. to Other Systems |
| 1LSV*PT12B | 1153GB6 | 410688 | 120 | Leakage Control Air Header Press. to Other Systems |
| 1LSV*PT14A | 1153GB6 | 410689 | 120 | Supply Header to Service Air & Instrument Air |

ROSEMOUNT MODEL 1153 AND 1154 TRANSMITTERS
WHICH PERFORM A SAFETY RELATED ACTUATION FUNCTION
WITH NORMAL OPERATING PRESSURES BELOW 500 PSI

| MARK NUMBER | MODEL NUMBER | SERIAL NUMBER | APPROX. NORMAL OPERATING PRESSURE (PSIG) | SERVICE DESCRIPTION |
|----------------|-----------------|------------------|--|--|
| 1LSV*PT14B | 1153GB6 | 410690 | 120 | Supply Header to Service Air & Instrument Air |
| 1LSV*PT17A | 1153GB6 | 410691 | 120 | Leakage Control Air Supply to Feedwater System |
| 1LSV*PT17B | 1153GB6 | 410692 | 120 | Leakage Control Air Supply to Feedwater System |
| 1LSV*PT21A | 1153GB6 | 410773 | 0 | Drywell Pressure |
| 1LSV*PT21B | 1153GB6 | 410774 | 0 | Drywell Pressure |
| 1LSV*PT22A | 1153GB7 | 404746 | 120 | Penetration Leakage Control Air Accum. Tank Press. |
| 1LSV*PT22B | 1153GB7 | 404747 | 120 | Penetration Leakage Control Air Accum. Tank Press. |
| 1LSV*PT26A | 1153GB7 | 406278 | 120 | Instrument Air Supply to Leakage Cont. Compressor |
| 1LSV*PT26B | 1153GB7 | 406279 | 120 | Instrument Air Supply to Leakage Cont. Compressor |
| 1LSV*PT9A | 1153GB7 | 404734 | 120 | Penetration Leakage Control Air Accum. Tank Inlet |
| 1LSV*PT9B | 1153GB7 | 404735 | 120 | Penetration Leakage Control Air Accum. Tank Inlet |
| 1SWP*FT69A | 1153DB4PA | 403991 | 100 | Service Water Flow to Control Building Chiller |
| 1SWP*FT69B | 1153DB4PA | 403992 | 100 | Service Water Flow to Control Building Chiller |
| 1SWP*FT69C | 1153DB4PA | 403993 | 100 | Service Water Flow to Control Building Chiller |
| 1SWP*FT69D | 1153DB4PA | 403994 | 100 | Service Water Flow to Control Building Chiller |
| 1SWP*PT21A | 1153GB7 | 404748 | 100 | Normal Service Water Supply Header Pressure |
| 1SWP*PT21B | 1153GB7 | 404749 | 100 | Normal Service Water Supply Header Pressure |
| 1SWP*PT21C | 1153GB7 | 404750 | 100 | Normal Service Water Supply Header Pressure |
| 1SWP*PT21D | 1153GB7 | 404751 | 100 | Normal Service Water Supply Header Pressure |
| 1SWP*PT21E | 1153GB7 | 404752 | 100 | Normal Service Water Supply Header Pressure |
| 1SWP*PT21F | 1153GB7 | 404753 | 100 | Normal Service Water Supply Header Pressure |
| 1SWP*PT21G | 1153GB7 | 410793 | 100 | Normal Service Water Supply Header Pressure |
| 1SWP*PT21H | 1153GB7 | 404755 | 100 | Normal Service Water Supply Header Pressure |
| 1SWP*PT21J | 1153GB7 | 412907 | 100 | Normal Service Water Supply Header Pressure |
| 1SWP*PT21K | 1153GB7 | 411304 | 100 | Normal Service Water Supply Header Pressure |
| 1SWP*PT21L | 1153GB7 | 412909 | 100 | Normal Service Water Supply Header Pressure |
| 1SWP*PT21M | 1153GB7 | 412910 | 100 | Normal Service Water Supply Header Pressure |
| 1SWP*PT32A | 1153GB6 | 418335 | 50 | Control Building Chiller Refrigerant Pressure |

ROSEMOUNT MODEL 1153 AND 1154 TRANSMITTERS
WHICH PERFORM A SAFETY RELATED ACTUATION FUNCTION
WITH NORMAL OPERATING PRESSURES BELOW 500 PSI

| MARK NUMBER | MODEL NUMBER | SERIAL NUMBER | APPROX. NORMAL OPERATING PRESSURE (PSIG) | SERVICE DESCRIPTION |
|----------------|-----------------|------------------|--|--|
| 1SWP*PT32B | 1153GB6 | 404461 | 50 | Control Building Chiller Refrigerant Pressure |
| 1SWP*PT32C | 1153GB6 | 404468 | 50 | Control Building Chiller Refrigerant Pressure |
| 1SWP*PT32D | 1153GB6 | 404469 | 50 | Control Building Chiller Refrigerant Pressure |
| 1SWP*PT551A | 1153GB7 | 404740 | 130 | Service Water Accumulator Tank Instrument Air In |
| 1SWP*PT551B | 1153GB7 | 404741 | 130 | Service Water Accumulator Tank Instrument Air In |