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SUBJECT: Forwards response to Suppl 1 to NRC Bulletin 90-001, "Loss of Fill-Oil in Transmitters Mfg by Rosemount."

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HAL B. TUCKER
Senior Vice President
Nuclear Generation
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DUKE POWER

May 24, 1993

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

Subject: Catawba Nuclear Station, Units 1 and 2
Docket Nos. 50-413, 414
McGuire Nuclear Station, Units 1 and 2
Docket Nos. 50-369, 370
Oconee Nuclear Station, Units 1, 2, and 3
Docket Nos. 50-269, 270, 287
NRC Bulletin No. 90-01, Supplement 1
Loss of Fill-Oil in Transmitters Manufactured
by Rosemount

Gentlemen:

The purpose of this letter is to submit Duke Power Company's (Duke's) response (Attachment 1) to the NRC Bulletin 90-01, Supplement 1, "Loss of Fill-Oil in Transmitters Manufactured by Rosemount", dated December 22, 1992. This response is submitted for all of Duke's nuclear plants; Oconee Nuclear Station, McGuire Nuclear Station, and Catawba Nuclear Station. By letter dated February 22, 1993, the NRC was informed that Duke would take the actions requested per Supplement 1; however, additional response time was required in order to complete the justification for the specific actions taken and the response to the Supplement 1 would be submitted no later than May 24, 1993.

The subject bulletin requested that addresses review the information in the supplement for applicability to their facilities and modify, as appropriate, their actions and enhanced surveillance programs. The supplement applied to any Rosemount Model 1153 Series B, Model 1153 Series D, and Model 1154 transmitters manufactured before July 11, 1989, that are used or may be used in the future in either safety-related systems or systems installed in accordance with 10 CFR 50.62 (ATWS rule). The action items identified in Supplement 1 superseded the actions requested in the original bulletin.

Attachment 1 of this letter gives Duke's response to the actions requested by the subject bulletin.

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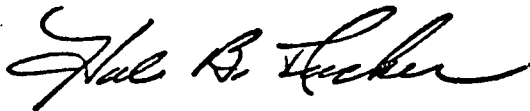
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May 24, 1993
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I declare under penalty of perjury that the statements set forth herein are true and correct to the best of my knowledge.

Very truly yours,

A handwritten signature in cursive script, appearing to read "H. B. Tucker". The signature is written in dark ink and is positioned above the typed name.

H. B. Tucker
Senior Vice President
Nuclear Generation

Document Control Desk
May 24, 1993
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xc: S. D. Ebnetter
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ATTACHMENT 1

Duke Power Company
Response to NRC Bulletin 90-01, Supplement 1
Loss of Fill-Oil in Transmitters Manufactured by Rosemount

<u>Duke's Response to Action Items (See Note)</u>	<u>Page No.</u>
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Note: Responses under "Duke's Response" are intended for Oconee Nuclear Station, McGuire Nuclear Station, and Catawba Nuclear Station. Any plant specific information is identified within responses where applicable.

DUKE POWER COMPANY
RESPONSE TO NRC BULLETIN 90-01, SUPPLEMENT 1
LOSS OF FILL-OIL IN TRANSMITTERS MANUFACTURED BY ROSEMOUNT

Action Item 1

"Review plant records and identify any Rosemount Model 1153 Series B, Model 1153 Series D, and Model 1154 transmitters manufactured before July 11, 1989, that are used or may be used in the future in either safety-related systems or systems installed in accordance with 10 CFR 50.62 (the ATWS rule), and"

Action Item 1.a.

"Expediently replace, or monitor for the life of the transmitter on a monthly basis using an enhanced surveillance monitoring program, any transmitters that have a normal operating pressure greater than 1500 psi and that are installed in reactor protection trip systems, ESF actuation systems or ATWS systems. Action for those transmitters that have not met the Rosemount psi-month threshold criterion should be expedited. At their discretion, licenses may monitor using an enhanced surveillance program at least once every refueling cycle, but not exceeding 24 months, transmitters in this category if the appropriate psi-month threshold criterion recommended by Rosemount has been reached, and the monitoring interval is justified based upon transmitter performance in service and its specific safety function. The justification should show that a sufficiently high level of reliability for the function is provided by the redundancy or diversity of applicable instrumentation and control systems, commensurate with the importance of the function, when considered in conjunction with the overall performance of the reactor protection trip system, ESF actuation systems, or ATWS system. Provide to the NRC a copy of the licensee justification to extend the enhanced surveillance program beyond the monthly test interval for transmitters that have reached the appropriate psi-month threshold criterion recommended by Rosemount."

Duke's Response:

The following transmitters identified for this category will be monitored monthly until they reach the appropriate psi-month threshold criterion recommended by Rosemount, at which time evaluations may be performed to extend the monthly interval.

<u>PLANT</u>	<u>MODEL</u>	<u>TAG NO.</u>	<u>FUNCTION</u>
OCONEE	1154HP6	OC1RCFT0014B	RC FLOW LOOP A
OCONEE	1154HP6	OC1RCFT0014C	RC FLOW LOOP A
OCONEE	1154HP6	OC1RCFT0015B	RC FLOW LOOP B

DUKE POWER COMPANY
 RESPONSE TO NRC BULLETIN 90-01, SUPPLEMENT 1
 LOSS OF FILL-OIL IN TRANSMITTERS MANUFACTURED BY ROSEMOUNT

<u>PLANT</u>	<u>MODEL</u>	<u>TAG NO.</u>	<u>FUNCTION</u>
OCONEE	1154HP6	OC1RCFT0015D	RC FLOW LOOP B
OCONEE	1154HP6	OC2RCFT0014B	RC FLOW LOOP A
OCONEE	1154HP6	OC2RCFT0014C	RC FLOW LOOP A
OCONEE	1154HP6	OC2RCFT0014D	RC FLOW LOOP A
OCONEE	1154HP6	OC2RCFT0014E	RC FLOW LOOP A
OCONEE	1154HP6	OC2RCFT0015C	RC FLOW LOOP B
OCONEE	1154HP6	OC2RCFT0015D	RC FLOW LOOP B
OCONEE	1154HP6	OC2RCFT0015E	RC FLOW LOOP B
OCONEE	1154HP6	OC3RCFT0014B	RC FLOW LOOP A
OCONEE	1154HP6	OC3RCFT0014C	RC FLOW LOOP A
OCONEE	1154HP6	OC3RCFT0014D	RC FLOW LOOP A
OCONEE	1154HP6	OC3RCFT0015B	RC FLOW LOOP B
OCONEE	1154HP6	OC3RCFT0015C	RC FLOW LOOP B
OCONEE	1154HP6	OC3RCFT0015D	RC FLOW LOOP B
OCONEE	1154HP6	OC3RCFT0015E	RC FLOW LOOP B

The following transmitters have exceeded their appropriate psi-month threshold. Based upon their range code they will be monitored monthly.

<u>PLANT</u>	<u>MODEL</u>	<u>TAG NO.</u>	<u>FUNCTION</u>
OCONEE	1153GD9	OC1RCPT0022P	RC PRESSURE
OCONEE	1153GD9	OC1RCPT0023P	RC PRESSURE
OCONEE	1154GP9	OC2RCPT0017P	RC PRESSURE
OCONEE	1154GP9	OC2RCPT0018P	RC PRESSURE
OCONEE	1154GP9	OC2RCPT0019P	RC PRESSURE
OCONEE	1154GP9	OC2RCPT0020P	RC PRESSURE
OCONEE	1153GD9	OC2RCPT0021P	RC PRESSURE
OCONEE	1153GD9	OC2RCPT0022P	RC PRESSURE
OCONEE	1153GD9	OC2RCPT0023P	RC PRESSURE
OCONEE	1154GP9	OC3RCPT0017P	RC PRESSURE
OCONEE	1154GP9	OC3RCPT0018P	RC PRESSURE
OCONEE	1154GP9	OC3RCPT0019P	RC PRESSURE
OCONEE	1154GP9	OC3RCPT0020P	RC PRESSURE
OCONEE	1153GD9	OC3RCPT0021P	RC PRESSURE
OCONEE	1153GD9	OC3RCPT0022P	RC PRESSURE
OCONEE	1153GD9	OC3RCPT0023P	RC PRESSURE

DUKE POWER COMPANY
 RESPONSE TO NRC BULLETIN 90-01, SUPPLEMENT 1
 LOSS OF FILL-OIL IN TRANSMITTERS MANUFACTURED BY ROSEMOUNT

Action Item 1.b.

"Replace, or monitor for the life of the transmitter on a quarterly basis using an enhanced surveillance monitoring program, any transmitters that have a normal operating pressure greater than 1500 psi and that are used in safety-related applications but are not installed in reactor protection trip systems, ESF actuation systems, or ATWS systems. At their discretion, licensees may monitor using an enhanced surveillance program at least once every refueling cycle, but not exceeding 24 months, transmitters in this category if the appropriate psi-month threshold criterion recommended by Rosemount has been reached, and the monitoring interval is justified based upon transmitter performance in service and its specific function. Provide to the NRC a copy of the licensee justification to extend the enhanced surveillance program beyond the quarterly test interval for transmitters that have reached the appropriate psi-month threshold criterion recommended by Rosemount."

Duke's Response:

The following transmitters identified for this category have not exceeded their appropriate psi-month threshold due to only being pressurized approximately eight hours per year. They will be changed out beginning with Unit 3 in December, 1993, Unit 1 in April, 1994, and Unit 2 in August, 1994.

<u>PLANT</u>	<u>MODEL</u>	<u>TAG NO.</u>	<u>FUNCTION</u>
OCONEE	1154GP9	OC1HPIPT0227	SSF RC M/U PMP OUT. PRESS.
OCONEE	1154GP9	OC2HPIPT0227	SSF RC M/U PMP OUT. PRESS.
OCONEE	1154GP9	OC3HPIPT0227	SSF RC M/U PMP OUT. PRESS.
OCONEE	1154HP4	OC1HPIFT0157	SSF RC M/U PMP OUT. FLOW
OCONEE	1154HP4	OC3HPIFT0157	SSF RC M/U PMP OUT. FLOW

The following transmitters identified for this category have not exceeded the appropriate psi-month threshold. They are expected to exceed the threshold in July, 1993. Based upon their service function and performance in service, the surveillance interval will be at least once every refueling cycle.

<u>PLANT</u>	<u>MODEL</u>	<u>TAG NO.</u>	<u>FUNCTION</u>
MCGUIRE	1153GA9	MC2NCPT5121	SSF RC LOOP-D W/R PRESS.
MCGUIRE	1153HD5	MC2NCLT5151	SSF RC PRESSURIZER LEVEL

DUKE POWER COMPANY
RESPONSE TO NRC BULLETIN 90-01, SUPPLEMENT 1
LOSS OF FILL-OIL IN TRANSMITTERS MANUFACTURED BY ROSEMOUNT

The following transmitters identified for this category have exceeded the appropriate psi-month threshold criterion recommended by Rosemount. Based upon their service function and performance in service, the surveillance interval will be at least once every refueling cycle.

<u>PLANT</u>	<u>MODEL</u>	<u>TAG NO.</u>	<u>FUNCTION</u>
MCGUIRE	1153GD9	MC1NCPT5120	NC LP-D W/R P
MCGUIRE	1153GD9	MC2NCPT5120	NC LP-D W/R P
OCONEE	1154HP5	OC1RCLT0072	PZR LEVEL
OCONEE	1154GP9	OC1RCPT0224	PZR PRESSURE
OCONEE	1154GP9	OC1RCPT0225	RC PRESS SSF
OCONEE	1154GP9	OC1RCPT0226	RC PRESS SSF
OCONEE	1154GP9	OC2RCPT0224	PZR PRESSURE
OCONEE	1154GP9	OC2RCPT0225	RC PRESS SSF
OCONEE	1154GP9	OC2RCPT0226	RC PRESS SSF
OCONEE	1154GP9	OC3RCPT0224	PZR PRESSURE
OCONEE	1154GP9	OC3RCPT0226	RC PRESS SSF

DUKE POWER COMPANY
RESPONSE TO NRC BULLETIN 90-01, SUPPLEMENT 1
LOSS OF FILL-OIL IN TRANSMITTERS MANUFACTURED BY ROSEMOUNT

Action Item 1.c.

"[For PWRs] Replace, or monitor at least once every refueling cycle, but not exceeding 24 months, using an enhanced surveillance program until the transmitter reaches the appropriate psi-month threshold criterion recommended by Rosemount, any transmitters that have a normal operating pressure greater than 500 psi and less than or equal to 1500 psi and that are installed in reactor protection trip systems, ESF actuation systems, or ATWS systems."

Duke's Response:

The following transmitters identified for this category have not reached their appropriate psi-month threshold criterion and will continue to be monitored at least once every refueling cycle.

<u>PLANT</u>	<u>MODEL</u>	<u>TAG NO.</u>	<u>FUNCTION</u>
MCGUIRE	1153GD9	MC2SMPT5180	S/G-D STM LN PRESS
MCGUIRE	1153GB8	MC1SMPT5210	TURBINE IMP PRESS
MCGUIRE	1153GB8	MC1SMPT5220	TURBINE IMP PRESS
MCGUIRE	1153GB8	MC2SMPT5210	TURBINE IMP PRESS
MCGUIRE	1153GB8	MC2SMPT5220	TURBINE IMP PRESS

DUKE POWER COMPANY
 RESPONSE TO NRC BULLETIN 90-01, SUPPLEMENT 1
 LOSS OF FILL-OIL IN TRANSMITTERS MANUFACTURED BY ROSEMOUNT

Action Item 1.d.

"Replace, or monitor at least once every refueling cycle, but not exceeding 24 months, using an enhanced surveillance monitoring program until the transmitter reaches the appropriate psi-month threshold criterion recommended by Rosemount, any transmitters used in safety-related systems that have a normal operating pressure greater than 500 psi and less than or equal to 1500 psi, and that are not installed in reactor protection trip systems, ESF actuation systems, or ATWS systems."

Duke's Response:

The following transmitters identified for this category have not reached their appropriate psi-month threshold criterion and will continue to be monitored at least once every refueling cycle.

<u>PLANT</u>	<u>MODEL</u>	<u>TAG NO.</u>	<u>FUNCTION</u>
MCGUIRE	1153DD5	MC1CAFT5091	AFW FLOW S/G-A
MCGUIRE	1153DD5	MC1CAFT5101	AFW FLOW S/G-B
MCGUIRE	1153DD5	MC1CAFT5111	AFW FLOW S/G-C
MCGUIRE	1153DD5	MC1CAFT5121	AFW FLOW S/G-D
MCGUIRE	1153DB5	MC1CFLT5610	S/G-A W/R LVL
MCGUIRE	1153DB5	MC1CFLT5620	S/G-B W/R LVL
MCGUIRE	1153DB5	MC1CFLT5630	S/G-C W/R LVL
MCGUIRE	1153DB5	MC1CFLT5640	S/G-D W/R LVL
MCGUIRE	1153DD5	MC2CAFT5101	AFW FLOW S/G-B
MCGUIRE	1153DD5	MC2CAFT5111	AFW FLOW S/G-C
MCGUIRE	1153DD5	MC2CAFT5121	AFW FLOW S/G-D
MCGUIRE	1153DB5	MC2CFLT5610	S/G-A W/R LVL
MCGUIRE	1153DB5	MC2CFLT5620	S/G-B W/R LVL
MCGUIRE	1153DB5	MC2CFLT5630	S/G-C W/R LVL
MCGUIRE	1153DB5	MC2CFLT5640	S/G-D W/R LVL
MCGUIRE	1153DD3	MC2NILT5060	ACCUM TK B LVL
OCONEE	1154DP5	OC1FDWLT0080	SSF S/G-A LVL
OCONEE	1154DP5	OC1FDWLT0081	SSF S/G-A LVL
OCONEE	1154DP5	OC1FDWLT0082	SSF S/G-A LVL
OCONEE	1154DP5	OC1FDWLT0083	SSF S/G-A LVL
OCONEE	1154DP5	OC2FDWLT0080	SSF S/G-A LVL
OCONEE	1154DP5	OC2FDWLT0081	SSF S/G-A LVL
OCONEE	1154DP5	OC2FDWLT0082	SSF S/G-A LVL
OCONEE	1154DP5	OC2FDWLT0083	SSF S/G-A LVL
OCONEE	1154DP5	OC3FDWLT0080	SSF S/G-A LVL
OCONEE	1154DP5	OC3FDWLT0081	SSF S/G-A LVL
OCONEE	1154DP5	OC3FDWLT0082	SSF S/G-A LVL

DUKE POWER COMPANY
RESPONSE TO NRC BULLETIN 90-01, SUPPLEMENT 1
LOSS OF FILL-OIL IN TRANSMITTERS MANUFACTURED BY ROSEMOUNT

<u>PLANT</u>	<u>MODEL</u>	<u>TAG NO.</u>	<u>FUNCTION</u>
OCONEE	1154DP5	OC3FDWLT0083	SSF S/G-A LVL
OCONEE	1154DP5	OC1FDWLT0067	SSF S/G-A LVL
OCONEE	1154DP5	OC2FDWLT0066	SSF S/G-A LVL
OCONEE	1154DP5	OC2FDWLT0067	SSF S/G-A LVL
OCONEE	1154DP5	OC3FDWLT0066	SSF S/G-A LVL

DUKE POWER COMPANY
RESPONSE TO NRC BULLETIN 90-01, SUPPLEMENT 1
LOSS OF FILL-OIL IN TRANSMITTERS MANUFACTURED BY ROSEMOUNT

Action Item 1.e.

"At licensee discretion, exclude from the enhanced surveillance program any transmitters that have a normal operating pressure greater than 500 psi and less than or equal to 1500 psi that have reached the appropriate psi-month threshold criterion recommended by Rosemount (60,000 psi-months or 130,000 psi-months depending on the range code of the transmitter). A high degree of confidence should be maintained for detecting failure of these transmitters caused by a loss of fill-oil and a high degree of reliability should be maintained for the function consistent with its safety significance."

Duke's Response:

The following transmitters identified for this category have exceeded the appropriate psi-month criterion and will be excluded from the monitoring program.

<u>PLANT</u>	<u>MODEL</u>	<u>TAG NO.</u>	<u>FUNCTION</u>
MCGUIRE	1153GD9	MC1SMPT5080	S/G-A STM LN PRESS
MCGUIRE	1153GD9	MC2SMPT5080	S/G-A STM LN PRESS
MCGUIRE	1153GD9	MC2SMPT5090	S/G-A STM LN PRESS
MCGUIRE	1153GD9	MC2SMPT5100	S/G-A STM LN PRESS
MCGUIRE	1153GD9	MC2SMPT5110	S/G-B STM LN PRESS
MCGUIRE	1153GD9	MC2SMPT5120	S/G-B STM LN PRESS
MCGUIRE	1153GD9	MC2SMPT5130	S/G-B STM LN PRESS
MCGUIRE	1153GD9	MC2SMPT5140	S/G-C STM LN PRESS
MCGUIRE	1153GD9	MC2SMPT5150	S/G-C STM LN PRESS
MCGUIRE	1153GD9	MC2SMPT5160	S/G-C STM LN PRESS
MCGUIRE	1153GD9	MC2SMPT5170	S/G-D STM LN PRESS
MCGUIRE	1153GD9	MC2SMPT5190	S/G-D STM LN PRESS

DUKE POWER COMPANY
RESPONSE TO NRC BULLETIN 90-01, SUPPLEMENT 1
LOSS OF FILL-OIL IN TRANSMITTERS MANUFACTURED BY ROSEMOUNT

Action Item 1.f.

"At licensee discretion, exclude from the enhanced surveillance program any transmitters that have a normal operating pressure less than or equal to 500 psi. A high degree of confidence should be maintained for detecting failure of these transmitters caused by a loss of fill-oil and a high degree of reliability should be maintained for the function consistent with its safety significance."

Duke's Response:

The following transmitters identified for this category will be excluded from the enhanced surveillance program.

<u>PLANT</u>	<u>MODEL</u>	<u>TAG NO.</u>	<u>FUNCTION</u>
CATAWBA	1153DB5	CN1CAFT5120	AUX FW FLOW S/G D
CATAWBA	1153DB4	CN1KCFT5530	KC HX A INLET FLOW
CATAWBA	1153DB4	CN1KCFT5531	KC HX A INLET FLOW
CATAWBA	1153DB4	CN1KCFT5540	KC HX B INLET FLOW
CATAWBA	1153DB4	CN1KCFT5541	KC HX B INLET FLOW
CATAWBA	1153DB4	CN2KCFT5530	KC HX A INLET FLOW
CATAWBA	1153DB4	CN2KCFT5531	KC HX A INLET FLOW
CATAWBA	1153DB4	CN2KCFT5540	KC HX B INLET FLOW
CATAWBA	1153DB4	CN2KCFT5540	KC HX B INLET FLOW
CATAWBA	1153DB4	CN2KCFT5541	KC HX B INLET FLOW
CATAWBA	1153DB4	CN1RNFT5800	NS HX A RN OUT FLOW
CATAWBA	1153DB4	CN1RNFT5850	NS HX B RN OUT FLOW
CATAWBA	1153DB4	CN2RNFT5800	NS HX A RN OUT FLOW
CATAWBA	1153DB4	CN2RNFT5850	NS HX B RN OUT FLOW
CATAWBA	1153GB7	CN1LDPT5142	D/G A LB OIL INLET
CATAWBA	1153GB7	CN1LDPT5143	D/G A LB OIL INLET
CATAWBA	1153GB7	CN1LDPT5144	D/G B LB OIL INLET
CATAWBA	1153GB7	CN1LDPT5172	D/G B LB OIL INLET
CATAWBA	1153GB7	CN1LDPT5173	D/G B LB OIL INLET
CATAWBA	1153GB7	CN1LDPT5174	D/G B LB OIL INLET
CATAWBA	1153GB7	CN2LDPT5142	D/G A LB OIL INLET
CATAWBA	1153GB7	CN2LDPT5143	D/G A LB OIL INLET
CATAWBA	1153GB7	CN2LDPT5144	D/G A LB OIL INLET
CATAWBA	1153GB7	CN2LDPT5172	D/G B LB OIL INLET
CATAWBA	1153GB7	CN2LDPT5173	D/G B LB OIL INLET
CATAWBA	1153GB7	CN2LDPT5174	D/G B LB OIL INLET
CATAWBA	1153DB6	CN1NSPT5370	CONT PRESSURE TR A
CATAWBA	1153DB6	CN1NSPT5380	CONT PRESSURE TR.B
CATAWBA	1153DB4	CN1NVLT5740	BORIC ACID TK LVL

DUKE POWER COMPANY
RESPONSE TO NRC BULLETIN 90-01, SUPPLEMENT 1
LOSS OF FILL-OIL IN TRANSMITTERS MANUFACTURED BY ROSEMOUNT

<u>PLANT</u>	<u>MODEL</u>	<u>TAG NO.</u>	<u>FUNCTION</u>
CATAWBA	1153DB4	CN1NVLT6070	BORIC ACID TK LVL
CATAWBA	1153DB6	CN2NSPT5370	CONT PRESSURE TR A
CATAWBA	1153DB6	CN2NSPT5380	CONT PRESSURE TR B
CATAWBA	1153DB4	CN2NVLT5740	BORIC ACID TK LVL
CATAWBA	1153DB4	CN2NVLT6070	BORIC ACID TK LVL
MCGUIRE	1153DB4	MC2FDLT5040	DG A F.O. DAY TK LVL
MCGUIRE	1153DD5	MC1NSFT5020	NS PUMP A DISCH FLOW
MCGUIRE	1153DD5	MC1NSFT5030	NS PUMP B DISCH FLOW
MCGUIRE	1153DD5	MC2NSFT5020	NS PUMP A DISCH FLOW
MCGUIRE	1153DB4	MC1NSPT5360	CONT PRESS TR B
MCGUIRE	1153DB4	MC1NSPT5370	CONT PRESS TR A
MCGUIRE	1153DB4	MC1NSPT5380	CONT PRESS TR A
MCGUIRE	1153DB4	MC1NSPT5390	CONT PRESS TR A
MCGUIRE	1153DB4	MC1NSPT5500	CONT PRESS TR A
MCGUIRE	1153DB4	MC1NSPT5520	CONT PRESS TR A
MCGUIRE	1153DD5	MC2NILT5111	POST ACCDNT R.B. LVL
MCGUIRE	1153DB4	MC2NSPT5360	CONT PRESSURE TR B
MCGUIRE	1153DB4	MC2NSPT5370	CONT PRESSURE TR A
MCGUIRE	1153DB4	MC2NSPT5380	CONT PRESSURE TR B
MCGUIRE	1153DB4	MC2NSPT5390	CONT PRESSURE TR A
MCGUIRE	1153DB4	MC2NSPT5500	CONT PRESSURE TR A
MCGUIRE	1153DB4	MC2NSPT5510	CONT PRESSURE TR B
MCGUIRE	1153DB4	MC2NSPT5520	CONT PRESSURE TR A
MCGUIRE	1153DD4	MC1RNFT5870	CS HX A INLET FLOW
MCGUIRE	1153DD4	MC1RNFT5880	CS HX B INLET FLOW
MCGUIRE	1153DD4	MC2RNFT5870	CS HX A INLET FLOW
MCGUIRE	1153DD4	MC2RNFT5880	CS HX B INLET FLOW
OCONEE	1154GP6	OC2HPIPT0223	SSF RC MAKEUP PUMP
OCONEE	1154GP6	OC3HPIPT0223	SSF RC MAKEUP PUMP
OCONEE	1153DB4	OC1CLT0015A	UPPER SURGE TANK B
OCONEE	1153DB4	OC1CLT0036	UPPER SURGE TANK A
OCONEE	1154GP6	OC1HPIPT0223	SSF RC MAKEUP PUMP
OCONEE	1153DB5	OC1LPILT0002A	LPI BWST LEVEL A
OCONEE	1153DB5	OC1LPILT0006	LPI BWST LEVEL B
OCONEE	1153DB5	OC1LPILT0132	LPI BWST LEVEL B
OCONEE	1153DB4	OC2CLT0015A	UPPER SURGE TANK B
OCONEE	1153DB4	OC2CLT0036	UPPER SURGE TANK A
OCONEE	1153DB5	OC2LPILT0002A	LPI BWST LEVEL A
OCONEE	1153DB5	OC2LPILT0006	LPI BWST LEVEL B
OCONEE	1153DB5	OC2LPILT0132	LPI BWST LEVEL B
OCONEE	1153DB4	OC3CLT0015A	UPPER SURGE TANK B
OCONEE	1153DB4	OC3CLT0036	UPPER SURGE TANK A
OCONEE	1153DB5	OC3LPILT0002A	LPI BWST LEVEL A.
OCONEE	1153DB5	OC3LPILT0006	LPI BWST LEVEL B

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Action Item 2

"Evaluate the enhanced surveillance monitoring program to ensure that the program provides measurement data with an accuracy range consistent with that needed for comparison with manufacturer drift data criteria for determining degradation caused by a loss of fill-oil."

Duke's Response:

The enhanced surveillance monitoring program provides data with the accuracy needed for comparison with drift data criteria.

Justifications:

The following transmitters are classified safety-related, but are not installed in reactor protection, ESF actuation, or ATWS systems. They have not exceeded the appropriate psi-month threshold criterion recommended by Rosemount. They are only pressurized approximately eight hours per year, are located inside containment, and are not accessible during normal operation. The service function is to provide indication of proper operation to the Standby Shutdown Facility (SSF) of the Reactor Coolant System makeup pump via indication of discharge pressure and discharge flow. Review of past calibrations spanning more than thirty-six months indicates stable performance. The transmitters will be changed out beginning with Unit 3 in December, 1993, Unit 1 in April, 1994, and Unit 2 in August, 1994.

<u>PLANT</u>	<u>MODEL</u>	<u>TAG NO.</u>	<u>FUNCTION</u>
OCONEE	1154GP9	OC1HPIPT0227	SSF RC M/U PMP OUT. PRESS.
OCONEE	1154GP9	OC2HPIPT0227	SSF RC M/U PMP OUT. PRESS.
OCONEE	1154GP9	OC3HPIPT0227	SSF RC M/U PMP OUT. PRESS.
OCONEE	1154HP4	OC1HPIFT0157	SSF RC M/U PMP OUT. FLOW
OCONEE	1154HP4	OC3HPIFT0157	SSF RC M/U PMP OUT. FLOW

The following transmitters are classified safety-related, but are not installed in reactor protection, ESF actuation, or ATWS systems. The service function is to provide indication to the SSF. Review of past calibrations indicates stable performance. They have not exceeded the psi-month threshold, but are expected to exceed the threshold in July, 1993. Upon meeting this date and satisfying their surveillance calibrations, the transmitters'

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monitoring interval will be extended from quarterly to at least once every refueling cycle.

<u>PLANT</u>	<u>MODEL</u>	<u>TAG NO.</u>	<u>FUNCTION</u>
MCGUIRE	1153GA9	MC2NCPT5121	SSF RC LOOP-D W/R PRESS.
MCGUIRE	1153HD5	MC2NCLT5151	SSF RC PRESSURIZER LEVEL

The following transmitter is classified safety-related, but is not installed in reactor protection, ESF actuation, or ATWS systems. It has exceeded the appropriate psi-month threshold criterion recommended by Rosemount. The service function is to provide pressurizer (PZR) level indication. Review of past calibrations spanning more than thirty-six months indicates stable performance. Based upon the above, the transmitter's monitoring interval will be extended from quarterly to at least once every refueling cycle.

<u>PLANT</u>	<u>MODEL</u>	<u>TAG NO.</u>	<u>FUNCTION</u>
OCONEE	1154HP5	OC1RCLT0072	PZR LEVEL

The following transmitters are classified safety-related, but are not installed in reactor protection, ESF actuation, or ATWS systems. They have exceeded the appropriate psi-month threshold criterion recommended by Rosemount. The service function is to provide PZR or Reactor Coolant System pressure indication to the SSF. Review of past calibrations spanning more than thirty-six months indicates stable performance. Based upon the above, the transmitters' monitoring interval will be extended from quarterly to at least once every refueling cycle.

<u>PLANT</u>	<u>MODEL</u>	<u>TAG NO.</u>	<u>FUNCTION</u>
OCONEE	1154GP9	OC1RCPT0224	PZR PRESSURE
OCONEE	1154GP9	OC1RCPT0225	RC PRESS SSF
OCONEE	1154GP9	OC1RCPT0226	RC PRESS SSF
OCONEE	1154GP9	OC2RCPT0224	PZR PRESSURE
OCONEE	1154GP9	OC2RCPT0225	RC PRESS SSF
OCONEE	1154GP9	OC2RCPT0226	RC PRESS SSF
OCONEE	1154GP9	OC3RCPT0224	PZR PRESSURE
OCONEE	1154GP9	OC3RCPT0226	RC PRESS SSF

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The following transmitters are classified safety-related, but are not installed in reactor protection, ESF actuation, or ATWS systems. They have exceeded the appropriate psi-month threshold criterion recommended by Rosemount. The service function is to provide wide range Reactor Coolant System pressure indication and input to the subcooling margin monitor. A redundant channel with a diverse manufacturer is also available. Review of past calibrations spanning more than thirty-six months indicates stable performance. Based upon the above, the transmitters' monitoring interval will be extended from quarterly to at least once every refueling cycle.

<u>PLANT</u>	<u>MODEL</u>	<u>TAG NO.</u>	<u>FUNCTION</u>
MCGUIRE	1153GD9	MC1NCPT5120	NC LP-D W/R P
MCGUIRE	1153GD9	MC2NCPT5120	NC LP-D W/R P