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 SORENSEN, G.C. Washington Public Power Supply System
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SUBJECT: Responds to NRC Bulletin 90-001, "Loss of Fill-Oil in Transmitters Mfg by Rosemount."

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

P.O. Box 968 • 3000 George Washington Way • Richland, Washington 99352

July 12, 1990
G02-90-125

Docket No. 50-397

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

Gentlemen:

Subject: NUCLEAR PLANT NO. 2, OPERATING LICENSE NPF-21
RESPONSE TO NRC BULLETIN 90-01: LOSS OF FILL-OIL
IN TRANSMITTERS MANUFACTURED BY ROSEMOUNT

Reference: NRC Bulletin 90-01: Loss of Fill-Oil in Transmitters
Manufactured by Rosemount, dated May 9, 1990

Within 120 days after receipt of the subject bulletin, all holders of operating licenses for nuclear power reactors were requested to:

- 1) Identify all Rosemount Model 1153B, 1153D and 1154 transmitters (except those manufactured after July 11, 1989) which are used in safety related systems or ATWS systems;
- 2) Determine if any of the transmitters identified in item 1) above are from the previously identified high failure rate manufacturing lots and replace, at the earliest appropriate opportunity, any of the high failure rate transmitters used in the reactor protection or engineered safety features actuation systems;
- 3) Review plant records for transmitters identified in item 1) to determine if any of them have already exhibited signs of fill-oil leakage and take appropriate actions;
- 4) Develop and implement an enhanced surveillance program for transmitters identified in item 1) to monitor for symptoms of loss of fill-oil;

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RESPONSE TO NRC BULLETIN 90-01: LOSS OF
FILL-OIL IN TRANSMITTERS MANUFACTURED BY ROSEMOUNT

- 5) Justify continued operation until the high failure rate manufacturing lot transmitters used in the reactor protection or engineered safety features actuation systems can be replaced; and
- 6) File requested reports pursuant to the provisions of Section 182a, Atomic Energy Act of 1954, as amended, and 10 CFR 50.54(f).

The purpose of this letter is to provide the Supply System's response to the above item.

1. As requested by the Reporting Requirements of Generic Letter 90-01, the Supply System hereby:

- a) Confirms that items 1, 2, 3, 4 and 5 of Requested Actions for Operating Reactors have been completed.
- b) At this point in time, only one of the suspect transmitters has exhibited signs of fill-oil leakage (MS-LT-26C).

This transmitter is a Rosemount Model 1153 Series D and was installed in the Main Steam (MS) system. The approximate amount of time at pressure was 50 months. MS-LT-26C has been replaced (during R5 outage) by a Rosemount transmitter manufactured after July 11, 1989 that is not subject to the Part 21 Notice. The suspect transmitter will be shipped to Rosemount for testing and confirmation of failure mode.

- c) The Supply System identified ten additional transmitters as being from the high failure rate lots. Those Model 1153 Services B & D transmitters are presently being utilized in the Main Steam (MS), Residual Heat Removal (RHR), and the Reactor Recirculation (RRC) systems. No Model 1154 transmitters were identified as being in use.

Subject to availability, the Supply System expects to replace the remaining Model 1153 Series B & D transmitters during the next refueling outage, scheduled to begin in April, 1991.

Safety related signals to scram, isolate, or perform other safety related functions do not rely on single transmitter origination. Multiple Rosemount transmitter failures would be necessary to prevent automatic actuation of a safety related function.

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IN TRANSMITTERS MANUFACTURED BY ROSEMOUNT

2. The Supply System will continue to monitor (trend) the remaining Rosemount Model 1153 Series B & D transmitters for loss of fill-oil characteristics, and if identified shall review for reportability under the appropriate NRC regulations. Information consistent with item 1b) above will be maintained.

This completes our response to NRC Bulletin 90-01.

Very truly yours,

G. C. Sorensen

G. C. Sorensen, Manager
Regulatory Programs

HLA/bk

cc: JB Martin - NRC RV
NS Reynolds - BCP&R
PL Eng - NRC
DL Williams - BPA/399
NRC Site Inspector - 901A



STATE OF WASHINGTON)
)
COUNTY OF BENTON)

Subject: Response to IEB 90-01

I, A. G. HOSLER, being duly sworn, subscribe to and say that I am the Manager, WNP-2 Licensing, for the WASHINGTON PUBLIC POWER SUPPLY SYSTEM, the applicant herein; that I have full authority to execute this oath; that I have reviewed the foregoing; and that to the best of my knowledge, information and belief the statements made in it are true.

DATE July 12, 1990

Alan Hosler
A. G. HOSLER, Manager
WNP-2 Licensing

On this day personally appeared before me A. G. HOSLER to me known to be the individual who executed the foregoing instrument and acknowledged that he signed the same as his free act and deed for the uses and purposes herein mentioned.

GIVEN under my hand and seal this 12th day of July, 1990.

Barnes Kasko
Notary Public in and for the
State of Washington
Residing at Kennecook, WA