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 STEINHARDT, C.R.    Wisconsin Public Service Corp.  
 RECIP. NAME                      RECIPIENT AFFILIATION  
    Document Control Branch (Document Control Desk)

SUBJECT: Forwards response to Suppl 1 to NRC Bulletin 90-001 re use  
 of certain Rosemount transmitters in safety-related  
 applications of sys. Four model 1153DD6 (Series D)  
 pressure switches installed in 1982 to measure steam flow.

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**WISCONSIN PUBLIC SERVICE CORPORATION**

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February 26, 1993

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

Gentlemen:

Docket 50-305  
Operating License DPR-43  
Kewaunee Nuclear Power Plant  
NRC Bulletin 90-01 Update

Reference: 1) NRC Bulletin No. 90-01, Supplement 1, dated December 22, 1992.

Reference 1 requested that within 60 days of receipt of Nuclear Regulatory Commission Bulletin No. 90-01, Supplement 1, a response be provided concerning the use of certain Rosemount transmitters in safety-related applications or systems installed in accordance with 10 CFR 50.62 (Accident Transients Without Scram). Wisconsin Public Service Corporation has completed the requirements of the Bulletin and has summarized the results of this assessment in the attachment to this letter. As required by the Bulletin, this response is being submitted under oath or affirmation.

Sincerely,

C. R. Steinhardt  
Senior Vice President-Nuclear Power

BAP/cjt  
Attach.

cc - Mr. Patrick Castleman, US NRC  
Region III

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Subscribed and Sworn to  
Before Me This 26<sup>th</sup> Day  
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Notary Public, State of Wisconsin

My Commission Expires:

June 18, 1995

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Attachment

To

Letter From C. R. Steinhardt (WPSC) To NRC Document Control Desk

Dated

February 26, 1993

Response to NRC Bulletin No. 90-01, Supplement 1 - Rosemount Transmitters

Document Control Desk  
February 26, 1993  
Attachment 1, Page 1

Reporting Requirements

Provide within 60 days after receipt of this bulletin, a response that includes the following:

NRC Reporting Requirement 1

A statement whether the licensee will take the actions stated under "Requested Actions" in NRC Bulletin 90-01, Supplement 1.

Requested Actions

The NRC requests that all holders of operating licenses for nuclear power reactors take the following actions:

Requested Action 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 (Accident Transient Without Scram).

WPSC Response

- References:
- 1) NRC IE Information Notice No. 89-42 dated April 21, 1989.
  - 2) NRC Bulletin No. 90-01 dated March 9, 1990.
  - 3) Letter from C.R. Steinhardt (WPSC) to Document Control Desk (NRC) dated July 17, 1990.

Reference 1 was issued to alert the industry to a series of reported failures of Rosemount Models 1153 and 1154 pressure and differential pressure transmitters. Reference 2 requested that licensees promptly identify and take appropriate corrective actions for Model 1153 Series B, Model 1153 Series D, and Model 1154 transmitters manufactured by Rosemount that may have the potential for leaking fill-oil. As a result of the issuance of Reference 1 and Reference 2, Wisconsin Public Service Corporation (WPSC) took immediate action by performing a review of Rosemount transmitters to identify any

suspect transmitters at the Kewaunee Nuclear Power Plant. In addition, a review of Rosemount transmitters installed at Kewaunee was also performed in response to a request by NUMARC in a letter dated June 13, 1990.

As stated in Reference 3, Kewaunee did have four model 1153DD6 (Series D) differential pressure transmitters which were installed in 1982 for measurement of main steam flow from steam generators 1A and 1B (two transmitters per steam generator). This application is safety-related as these transmitters supply an input to the reactor protection system and to the main steam line isolation logic. These four transmitters were manufactured before July 11, 1989; however, they were not included in the manufacturing lots that had been identified by Rosemount as having a high failure fraction due to loss of fill-oil. This was based on a comparison of the serial numbers of the four transmitters to a list of suspect transmitter serial numbers. Although these four transmitters did not show any indication of loss of fill fluid, WPSC still chose to replace them during the March 1991 refueling outage. These four transmitters were not placed back in stock after they were removed from the field. In addition, a review of Rosemount transmitters stocked in the warehouse indicated that there were not any suspect transmitters available. Therefore, possible use in the future is not a concern.

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February 26, 1993  
Attachment 1, Page 3

Requested Actions 1a, 1b, 1c, 1d, 1e, 1f, and 2 do not apply because Kewaunee does not have any Rosemount Model 1153 Series B, Model 1153 Series D, or Model 1154 Series transmitters that fall within the scope of this bulletin.

NRC Reporting Requirements 2c

When completed, a statement confirming that Items 1 and 2 of Requested Actions for Operating Reactors provided in this supplement have been completed.

WPSC Response

Reporting Requirement 2c has been fulfilled through the actions taken by WPSC in response to Reference 2.

NRC Reporting Requirements 2a, 2b, and 3

WPSC Response

Reporting Requirements 2a, 2b, and 3 do not apply because Kewaunee does not have any Rosemount Model 1153 Series B, Model 1153 Series D, or Model 1154 Series transmitters that fall within the scope of this bulletin.