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Docket No. 50-364

10 CFR 50.4

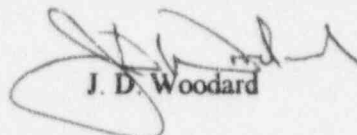
U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D. C. 20555

Joseph M. Farley Nuclear Plant - Unit 2
Special Report No. 95-001, Inoperable R-27A Radiation Monitor

Ladies and Gentlemen:

In accordance with the requirements of Technical Specification 3.3.3.1, the enclosed Special Report No. 95-001, Unit 2, is submitted.

Respectfully submitted,


J. D. Woodard

Enclosure

DPH:maf SPRR27A.DOC

cc: Mr. S. D. Ebnetter
 Mr. B. L. Siegel
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Special Report for Inoperable Radiation Monitor

This Special Report is being submitted in accordance with Technical Specification 3.3.3.1 due to the fact that the Unit Two Containment Area radiation monitor R-27A was not restored to operable status within 7 days.

On August 6, 1995 at 1015 R-27A was declared inoperable due to the instrument displaying an invalid alarm. Previous experience and vendor recommendations indicated the most likely cause of the observed problem was a failed connector seal located at the detector. The connector seal was replaced, and functional testing, which included detector response to a 6 R/hr source, was performed satisfactorily. R-27A was returned to operable status on August 13, 1995 at 0907.

On August 19, 1995 at 1400 R-27A was declared inoperable due to the instrument displaying an invalid alarm. An investigation initially indicated that the self-check feature of the instrument may have resulted in the instrument going into an unwarranted alarm condition. Corrective maintenance was performed on the self checking circuit which periodically verifies cable continuity and detector operability. Two capacitors associated with this circuit were replaced, and functional testing was completed satisfactorily. R-27A was considered operable at 2210 on August 22, 1995. However, at 0924 on August 23, 1995, R-27A was declared inoperable due to the instrument intermittently displaying an invalid alarm. Following this occurrence, the detector and instrument drawer were replaced, however, R-27A continued to alarm intermittently. Additional testing indicated the invalid alarms are apparently due an intermittent failure occurring inside a field connector returning from the detector. The field connector will be repaired and appropriate testing performed as soon as repair parts become available. Corrective action is tentatively scheduled to be completed by September 15, 1995.

Based on several days of observation following corrective maintenance and testing associated with the August 6, 1995 failure, the August 19, 1995 failure is attributed to a different failure mechanism. This Special Report is being submitted based on failing to restore R-27A to operable status within 7 days beginning August 19, 1995.

During the periods when R-27A was inoperable, R-27B remained operable.