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Docket Nos.: 50-364

NL-15-0080

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D. C. 20555-0001

Joseph M. Farley Nuclear Plant, Unit 2
Special Report 2015-001-00

Ladies and Gentlemen:

In accordance with the requirements of Technical Requirements Manual (TRM) TR 13.3.4, the enclosed Special Report No. 2015-001-00 (Unit 2) is submitted.

This letter contains no NRC commitments. If you have any questions, please contact Greg Bell at (334) 814-4765.

Sincerely,

A handwritten signature in black ink, appearing to read "C. Gayheart", with a stylized flourish at the end.

Ms. C. A. Gayheart
Vice President – Farley

Enclosure: Special Report 2015-001-00

cc: Southern Nuclear Operating Company
Mr. S. E. Kuczynski, Chairman, President & CEO
Mr. D. G. Bost, Executive Vice President & Chief Nuclear Officer
Mr. M. D. Meier, Vice President – Regulatory Affairs
Mr. D. R. Madison, Vice President – Fleet Operations
Mr. B. J. Adams, Vice President – Engineering
Mr. R. R. Martin, Regulatory Affairs Manager - Farley
RTYPE: CFA04.054

U. S. Nuclear Regulatory Commission
Mr. V. M. McCree, Regional Administrator
Mr. S. A. Williams, NRR Project Manager - Farley
Mr. P. K. Niebaum, Senior Resident Inspector - Farley

Joseph M. Farley Nuclear Plant, Unit 2
Special Report 2015-001-00, Nonfunctional Radiation Monitor R-29B

Enclosure

Special Report 2015-001-00

Joseph M. Farley Nuclear Plant, Unit 2
Special Report 2015-001-00, Nonfunctional Radiation Monitor R-29B

Enclosure

Special Report 2015-001-00

This Special Report is being submitted due to the Unit 2 Radiation Monitor R-29B not being restored to functional status within the time required by Technical Requirements Manual (TRM) TR 13.3.4. The TRM requires the monitor to be restored to functional status within 7 days or submit a Special Report within the next 14 days following the event.

Per TRM 13.3.4, R-29B functionality ensures the following:

- The radiation levels of the plant vent stack are monitored continuously for noble gas
- The monitor alarm is initiated when the radiation level trip setpoint is reached.

At 1230 on January 6, 2015 during a radiation monitor source check, the mid-range Noble Gas channel had a step change spike causing R-29B to stay in alarm. R-29B was evaluated as not being able to fulfill its function per TRM 13.3.4 to monitor the plant vent stack continuously and was declared nonfunctional. Operations verified that all other vent stack radiation monitors were normal. R-29B was not repaired in the required action time of 7 days.

Initial troubleshooting indicated that the instrument problem was caused by a malfunction of the detector. However, following detector replacement, RE-29B remained in alarm. An isotopic calibration was performed and verified that the detector was operating correctly. Additional troubleshooting revealed that there was a problem with the alignment of the check source.

The check source was removed and R-29B returned to normal. It was determined acceptable to leave the check source removed during normal detector operation. Operations performed the surveillance check satisfactorily and restored R-29B to functional status at 1538 on January 15, 2015.