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Docket Nos.: 50-348

NL-16-2391

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

Joseph M. Farley Nuclear Plant, Unit 1  
Special Report 2016-004-00, Nonfunctional Radiation Monitor R-60C

Ladies and Gentlemen:

In accordance with the requirements of Technical Requirements Manual (TRM)  
TRM 13.3.4, the enclosed Special Report No. 2016-004-00 (Unit 1) is submitted.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Cheryl A. Gayheart".

Ms. C. A. Gayheart  
Vice President – Farley

CRP/JWM

Enclosure: Special Report 2016-004-00

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. C. R. Pierce, Regulatory Affairs Director  
Mr. B. J. Adams, Vice President – Engineering  
Ms. B. L. Taylor, Regulatory Affairs Manager - Farley  
RTYPE: CFA04.054

U. S. Nuclear Regulatory Commission  
Ms. C. Haney, Regional Administrator  
Mr. S. A. Williams, NRR Project Manager - Farley  
Mr. P. K. Niebaum, Senior Resident Inspector - Farley

**Joseph M. Farley Nuclear Plant, Unit 1  
Special Report 2016-004-00, Nonfunctional Radiation Monitor R-60C**

**Enclosure**

**Special Report 2016-004-00**

Joseph M. Farley Nuclear Plant, Unit 1  
Special Report 2016-004-00, Nonfunctional Radiation Monitor R-60C

Enclosure

Special Report 2016-004-00

This Special Report is being submitted due to the Unit 1 radiation monitor R-60C (Main Steam Relief and Atmospheric Steam Dump Discharge) not being restored to functional status within the time required by Technical Requirements Manual (TRM) section 13.3.4. The TRM requires that the monitor be restored to functional status within 7 days or submit a Special Report within the following 14 days.

At 0034 on November 3, 2016, with Unit 1 in Mode 3, radiation monitor R-60C was declared nonfunctional due to a loop failure which indicates a loss of signal. A mandatory TRM Required Action was entered and a work order was generated to repair R-60C.

Troubleshooting of the loop failure isolated the problem to the detector. Due to the detector's location on the main steam valve room roof being in close proximity to steam generator safety relief valve exhaust piping, repair of the monitor is a personnel safety concern should any relief valve lift during the repair effort. Therefore, repair of the monitor should be performed only under cold shutdown conditions to ensure personnel safety. A work order is in place to be worked during the next refueling outage, or at the next available opportunity. In addition, a design change is scheduled to replace R-60C with a new radiation monitor. Compensatory measures have been established and TRM Required Actions are being met for radiation monitor R-60C nonfunctionality.