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December 14, 2017

Docket No.: 50-348

NL-17-2061

U. S. Nuclear Regulatory Commission
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Washington, D. C. 20555-0001

Joseph M. Farley Nuclear Plant
Special Report 2017-002-00, Nonfunctional Radiation Monitor R-60B

Ladies and Gentlemen:

In accordance with the requirements of Technical Requirements Manual (TRM) 13.3.4, the enclosed Special Report No. 2017-002-00 (Unit 1) is submitted.

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

Respectfully submitted,

D. R. Madison
Vice President – Farley

DRM/MML

Enclosure: Special Report 2017-002-00

cc: Southern Nuclear Operating Company
Mr. S. E. Kuczynski, Chairman, President & CEO
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Mr. M. D. Meier, Vice President – Regulatory Affairs
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Joseph M. Farley Nuclear Plant Unit 1

Enclosure

Special Report 2017-002-00, Nonfunctional Radiation Monitor R-60B

**Joseph M. Farley Nuclear Plant, Unit 1
Special Report 2017-002-00, Nonfunctional Radiation Monitor R-60B**

This Special Report is being submitted due to the Unit 1 radiation monitor R-60B (Main Steam Relief and Atmospheric Steam Dump) 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 1150 on December 1, 2017, with Unit 1 in Mode 1 and operating at 100 percent power, radiation monitor R-60B was declared nonfunctional due to erratic indications. A mandatory TRM Required Action was entered, and a work order was generated to repair R-60B.

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. Additionally, R-60B is scheduled for replacement under the Design Change Process (SNC54928). The replacement of R-60B is scheduled to begin in January 2018 with the radiation monitor returned to service in June 2018. Compensatory measures have been established, and TRM Required Actions are being met for radiation monitor R-60B nonfunctionality.