



December 23, 2013

L-2013-345
10 CFR 50.36

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

Re: St. Lucie Unit 2
Docket No. 50-389
Date of Event: December 12, 2013
Technical Specification Special Report
Radiation Monitor Inoperable Greater Than 72 Hours

The attached special report is being submitted pursuant to the requirements of St. Lucie Unit 2 Technical Specification 3.3.3.1, Action b, Table 3.3-6, Action 27, and Technical Specification 6.9.2. This report provides notification that the Steam Generator Blowdown Treatment Facility Building Exhaust Radiation Monitor RM-45-1 was inoperable for greater than 72 hours.

Alternate means of radiation monitoring were implemented in accordance with the Technical Specification ACTION statement.

Please contact us if there any questions on this information.

Sincerely,

Eric S. Katzman
Licensing Manager
St. Lucie Plant

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I. TITLE

Steam Generator Blowdown Treatment Facility Building Exhaust Radiation Monitor RM-45-1 Inoperable Greater Than 72 Hours.

II. EVENT DESCRIPTION

On December 12, 2013, St. Lucie Unit 2 was in Mode 1 at 100% power. The Steam Generator Blowdown Treatment Facility Building Exhaust Radiation Monitor RM-45-1 lost power due to a failed Motor Control Center (MCC 1B9) which supplies the monitor's power. The limiting condition for operation (LCO) for TS 3.3.3.1, Action b, Table 3.3-6, Action 27, states that:

“With the number of OPERABLE Channels less than required by the Minimum Channels OPERABLE requirement, either restore the inoperable Channel(s) to OPERABLE status within 72 hours, or:

- 1) Initiate the preplanned alternate method of monitoring the appropriate parameter(s), and
- 2) Prepare and submit a Special Report to the Commission pursuant to Specification 6.9.2 within 14 days following the event outlining the action taken, the cause of the inoperability and the plans and schedule for restoring the system to OPERABLE status.”

III. CAUSE OF THE EVENT

The loss of power to the radiation monitor was due to a 480V motor single phasing as a result of loose line side connections in MCC 1B9. The loose connections caused arcing and damage to MCC 1B9 bucket and buss bar.

IV. ACTIONS TAKEN

Short Term:

Alternate monitoring was implemented in accordance with TS 3.3.3.1, Action b; Table 3.3-6, Action 27. A temporary source of power will be supplied to the monitor until the MCC 1B9 is repaired.

Long Term:

The permanent power source will be repaired and returned to service.

V. SCHEDULE FOR RESTORING SYSTEM

The estimate for returning MCC 1B9 to service is February 14, 2014 due to lead times for parts required to repair the MCC. If the Steam Generator Blowdown Treatment Facility Building Exhaust Radiation Monitor RM-45-1 is not restored with its permanent power by the end of February 2014, an update will be provided.