Florida Power & Light Company, 6501 S. Ocean Drive, Jensen Beach, FL 34957

April 20, 2009

L-2009-097
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: April 5, 2009
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 plant vent wide range gas monitor 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

ESK/KWF

IE22
NRR

I. TITLE

Plant Vent Wide Range Gas Monitor Inoperable Greater Than 72 Hours.

II. EVENT DESCRIPTION

On April 5, 2009, St. Lucie Unit 2 was in Mode 1 at 100% power. The sample pump for the plant vent wide range gas monitor, RIM-26-90, started cycling excessively, and the radiation monitor was taken out of service. 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."

Work Order (WO) 39007656 was initiated to troubleshoot and repair the sample pump cycling issue. On April 8, 2009, troubleshooting efforts to repair the radiation monitor were unsuccessful and the 72-hour time period to restore the subject radiation monitor to operable status expired.

III. CAUSE OF THE EVENT

Investigation into the plant vent wide range gas monitor, RIM-26-90, revealed the monitor's flowpath was filled with water. The monitor was purged and dried, however, issues remained with the monitor low range sample flow; troubleshooting revealed the low range sample flowmeter had failed. Grounding issues with the onsite replacement flowmeters resulted in the plant not being able to restore the monitor to an operable condition. As of April 20, 2009, the ground issues in the flowmeter circuit have not been resolved and an additional flowmeter is being procured to affect the repair.

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.

Long Term:

An additional flowmeter is being procured in accordance with the troubleshooting efforts continuing under WO 39007656.

V. SCHEDULE FOR RESTORING SYSTEM

If the plant vent wide range gas monitor, RIM-26-90, is not restored to service by May 1, 2009, an update will be provided.