



Entergy Nuclear Operations, Inc.  
Palisades Nuclear Plant  
27780 Blue Star Memorial Highway  
Covert, MI 49043  
Tel 269 764 2000

**Otto W. Gustafson**  
Palisades Licensing Manager

PNP 2012-007

January 31, 2012

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

SUBJECT: Special Report for Inoperability of High Range Noble Gas Monitor  
Palisades Nuclear Plant  
Docket 50-255  
License No. DPR-20

REFERENCES: Palisades Offsite Dose Calculation Manual (ODCM)

Dear Sir or Madam:

The Palisades ODCM, Appendix A, Table A-1, Action 4, requires that a special report be submitted to the Nuclear Regulatory Commission within 30 days for the inoperability of RIA-2327, High Range Noble Gas Monitor, when the instrument is not restored to operable status within 7 days. The enclosed report summarizes the actions taken, the cause of the inoperability, and the current status of the instrument.

Summary of Commitments

This letter contains no new commitments and no revisions to existing commitments.

Sincerely,

A handwritten signature in black ink, appearing to read "O.W. Gustafson".

owg/tad

Attachment: Special Report for Inoperable RIA-2327, High Range Noble Gas Monitor

CC Administrator, Region III, USNRC  
Project Manager, Palisades, USNRC  
Resident Inspector, Palisades, USNRC

## **ATTACHMENT**

### **SPECIAL REPORT FOR INOPERABLE RIA-2327 HIGH RANGE NOBLE GAS MONITOR**

#### **BACKGROUND**

RIA-2327, High Range Noble Gas Monitor, was declared inoperable on January 3, 2012, after the instrument failed to meet the check source acceptance criteria of the monthly process monitor functional testing.

#### **ACTIONS TAKEN**

As a compensatory measure, the preplanned alternate method of monitoring was verified to be in-service, within the Offsite Dose Calculation Manual requirement of seventy-two hours, on January 5, 2012.

#### **CAUSE OF INSTRUMENT INOPERABILITY**

On January 12, 2012, troubleshooting and testing was performed on the ratemeter, detector and pre-amplifier of RIA-2327. The troubleshooting and testing did not identify any issues with the monitor's components. No corrective maintenance activities were performed on the monitor. It was determined the RIA-2327 failed to meet the check source acceptance criteria of the monthly process monitor functional testing due to normal instrument drift. Following troubleshooting on January 12, 2012, RIA-2327 tested satisfactorily.

#### **PLANS AND SCHEDULE FOR RESTORING INSTRUMENT OPERABILITY**

On January 12, 2012, following satisfactory functional testing, RIA-2327 was returned to operable status.