

Clinton Power Station  
8401 Power Road  
Clinton, IL 61727



Exelon Generation®

U-604357

July 5, 2017

10CFR50.73  
SRRS 5A.108

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

Clinton Power Station, Unit 1  
Facility Operating License No. NPF-62  
NRC Docket No. 50-461

Subject: Special Report: Inoperable Drywell High Range Gamma Radiation Monitor

In accordance with Clinton Power Station (CPS) Technical Specification (TS) 3.3.3.1, Post Accident Monitoring (PAM) Instrumentation, Required Action B.1, Exelon Generation Company, LLC (EGC) is submitting the following Special Report concerning the inoperability of Drywell High Range Gamma Radiation Monitor, 1RIX-CM060.

#### **Description of Event**

On May 27, 2017 with unit in Mode 4, during the performance of procedure 9437.65, Containment/Drywell High Range Gamma Monitor 1RIX-CM059 (60, 61, 62) Channel Calibration, the monitor was discovered unresponsive when exposed to a high range gamma source. However, the plant was not required to have 1RIX-CM060 operable at the time as TS 3.3.3.1 applies only in Modes 1 and 2.

On May 28, 2017 at 1814 hours, upon entry into Mode 2 for plant startup from refueling outage C1R17, TS 3.3.3.1 Required Action A.1 was entered, requiring restoration of 1RIX-CM060 to operable status in 30 days.

#### **Action Taken**

Troubleshooting on May 28, 2017 under Work Order 04644783 verified proper operation of the power supply, signal input circuit, and metering circuit. In addition, electronics, cabling, and equipment outside the drywell have been investigated with no deficiencies identified. Vendor support to assist in troubleshooting has been scheduled the week of 7/10/17. If no cause external to the drywell can be determined, additional troubleshooting and restoration will be performed during the next refueling outage C1R18 due to radiation considerations.

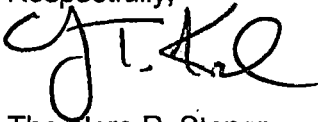
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**Cause of Inoperability**

The cause of inoperability is still under investigation. A follow up report will be issued upon determination of the cause of the inoperability.

Should you have any questions concerning this report, please contact Mr. Dale Shelton, Regulatory Assurance Manager, at (217) 937-204.

Respectfully,

 BRADLEY T. KAPEVAS FOR THEO STONER

Theodore R, Stoner  
Site Vice President  
Clinton Power Station  
NAS/bsz

cc:

Regional Administrator— NRC Region III  
NRC Senior Resident Inspector - Clinton Power Station  
Office of Nuclear Facility Safety — Illinois Emergency Management Agency