

Clinton Power Station  
8401 Power Road  
Clinton, IL 61727



Exelon Generation®

U-604406 B  
March 20, 2018

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 Follow-Up: Inoperable Drywell High Range Gamma Radiation Monitor

Reference: U-604357 Special Report Inoperable Drywell High Range Gamma Radiation Monitor

In the referenced letter, dated July 5, 2017 Clinton Power Station (CPS) submitted a Special Report in accordance with Technical Specification (TS) 3.3.3.1, Post Accident Monitoring (PAM) Instrumentation, Required Action B.1, concerning the inoperability of Drywell High Range Gamma Radiation Monitor, 1RIX-CM060. At the time, CPS was still investigating the cause of inoperability. This letter provides an update on the cause of inoperability and actions taken to restore operability.

The cause of inoperability was determined to be degradation of a connector located at the containment penetration resulting in a loss of voltage supplied to the detector. CPS located the cause using vendor supported Time-Domain Reflectometry (TDR).

After determining the cause of inoperability, CPS replaced the degraded connector and returned 1RIX-CM060 to operable status on January 11, 2018.

The station's inability to identify and fix the detector within 30 days was due to a neutron field located in proximity of the containment penetration, requiring development of purpose built shielding to be installed to allow for further investigation and repair.

Should you have any questions concerning this report, please contact Mr. Dale Shelton, Regulatory Assurance Manager, at (217) 937-2800.

Respectfully,

Theodore R, Stoner  
Site Vice President  
Clinton Power Station  
NAS

cc:

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

IEZZ  
NRR