



TS 6.9.1.7

LG-17-053

April 25, 2017

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

Limerick Generating Station, Units 1 and 2  
Renewed Facility Operating License Nos. NPF-39 and NPF-85  
NRC Docket Nos. 50-352 and 50-353

Subject: 2016 Annual Radiological Environmental Operating Report

In accordance with the requirements of Section 6.9.1.7 of Limerick Generating Station (LGS) Unit 1 and Unit 2 Technical Specifications (TS), and Section 6.1 of the LGS Units 1 and 2 Offsite Dose Calculation Manual (ODCM), this letter submits the 2016 Annual Radiological Environmental Operating Report. This report provides the 2016 results for the Radiological Environmental Monitoring Program (REMP) as called for in the ODCM.

In assessing the data collected for the REMP, it has been concluded that the operation of LGS, Units 1 and 2 had no adverse impact on the environment. No plant-produced fission or activation products, with the exception of CS-137 and I-131, were found in any pathway modeled by the REMP. Neither CS-137 nor I-131 was concluded to be from LGS. The results of the groundwater protection program are also included in this report. Positive tritium was found in 5 of 13 groundwater monitoring locations that ranged from non-detectable to 5,200 pCi/L; which is below the EPA limit of 20,000 pCi/L.

There are no commitments contained in this letter.

If you have any questions or require additional information, please contact Aaron Briggs at 610-718-2701.

Respectfully,

A handwritten signature in black ink that reads "Richard W. Libra".

Richard W. Libra  
Vice President-Limerick Generating Station  
Exelon Generation Company, LLC

Attachment: 2016 Annual Radiological Environmental Operating Report

IE25  
NRC

cc: D. Dorman, Administrator, Region I, USNRC (w/attachment)  
S. Rutenkroger, LGS USNRC Senior Resident Inspector (w/attachment)  
H. Anagnostopoulos, Inspector Region I, USNRC (w/attachment)  
V. Sreenivas, Senior Project Manager-NRR, USNRC (w/attachment)

**ATTACHMENT**

**2016 ANNUAL RADIOLOGICAL  
ENVIRONMENTAL OPERATING REPORT**