Limerick Generating Station
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Pottstown, PA 19464

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Exelon Nuclear

TS 6.9.1.7

April 28, 2011

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

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

Subject: 2010 Annual Radiological Environmental Operating Report

Dear Sir:
In accordance with the requirements of Section 6.9.17 of Limerick Generating Station (LGS) Unit 1 and Unit 2 Tech. Specs., and Section 6.1 of the LGS Units 1 and 2 Offsite Dose Calculation Manual (ODCM), this letter submits the 2010 Annual Radiological Environmental Operating Report No. 26. This report provides the 2010 results for the Radiological Environmental Monitoring Program (REMP) as called for in the Offsite Dose Calculation Manual.

In assessing the data collected for the REMP, we have 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, were found in any pathway modeled by the REMP. Cesium-137 levels detected in sediment were consistent with levels found in previous years and were attributable to LGS liquid releases. Results of the groundwater protection program are also included in this report. Positive tritium was found in 2 of 15 groundwater monitoring locations that ranged up to 1,320 pCi/L.

There are no commitments contained in this letter.

If you have any questions, please do not hesitate to contact us.

Sincerely,

William F. Maguire
Vice President -LGS
Exelon Generation Company, LLC

Attachment: 2010 Annual Radiological Environmental Operating Report No. 26

cc: W. Dean, Administrator, Region I, USNRC (w/Attachment)
E. DiPaolo, USNRC Senior Resident Inspector, LGS (w/Attachment)
P. Bamford -Senior Project Manager-NRR, USNRC (w/Attachment)
T. Moslak, Inspector, Region I, USNRC (w/Attachment)

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LIMERICK GENERATING STATION
ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT
DISTRIBUTION LIST

bcc: P. Gardner – GML 5-1 (w/o Attachment)
W. Maguire –GML 5-1 (w/o Attachment)
D. Merchant – GML 1-1 (w/o Attachment)
J. Hunter III – SSB 2-4 (w/Attachment)
C. Cooney– SSB 2-2(w/Attachment)
L. Birkmire -SSB 2-2 (w/Attachment)
C. Smith – SSB 2-2 (w/Attachment)
S. Gamble – SSB 2-4 (w/o Attachment)
A. Columbus- SMB 1-2 (w/Attachment)
K. Jury – Cantara (w/o Attachment)
J. Grimes - KSA 3N (w/o Attachment)
C. Lewis – KSA 3N (w/o Attachment)
D. Helker – KSA 3E (w/o Attachment)
R. Janati-Commonwealth of PA (w/Attachment)
M. Murphy- PA DEP BRP Inspector – SSB 2-4 (w/Attachment)
S. Focht – ANI (w/Attachment)
David Katz - Deputy Water Commissioner Environmental Policy and Planning
City of Phila. Water Dept, ARAMark Tower 5th Flr, 1101 Market St. Phila. PA 19107-2994 (w/Attachment)
Aqua Pennsylvania 762 West Lancaster Avenue Bryn Mawr, PA 19010 (w/Attachment)
Andrew Fabian -Phoenixville Water Works 140 Church St Phoenixville, PA 19460 (w/Attachment)
Pennsylvania American Water 800 W. Hershey Park Dr. Hershey, PA 17033 (w/Attachment)
James Hennessey - Pottstown Water Authority 100 E. High St Pottstown, PA 19464-9525 (w/Attachment)