Jeffrey M. Helsel Nuclear Plant Manager PPL Susquehanna, LLC 769 Salem Boulevard Berwick, PA 18603 Tel. 570.542.3510 Fax 570.542.1504 jmhelsel@pplweb.com



APR 1 0 2013

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

SUSQUEHANNA STEAM ELECTRIC STATION RADIOACTIVE EFFLUENT RELEASE REPORT AND OFFSITE DOSE CALCULATION MANUAL PLA-6994

Docket Nos. 50-387 and 50-388

In accordance with 10 CFR 50.36a (a)(2) and the Susquehanna Steam Electric Station (SSES) Units 1 and 2 Technical Specification (TS) 5.6.3, attached is the annual Radioactive Effluent Release Report for SSES Units 1 and 2 for the period covering January 1 through December 31, 2012. Additionally, in accordance with TS 5.5.1.C.3, attached is a copy of the Offsite Dose Calculation Manual as revised through December 31, 2012.

Should you have any questions or require additional information, please contact Mr. John L. Tripoli, Manager – Nuclear Regulatory Affairs at (570) 542-3100.

There are no regulatory commitments identified in this letter.

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Attachment 1: Radioactive Effluent Release Report for SSES Units 1 and 2 Attachment 2: Offsite Dose Calculation Manual

Copy: Mr. D. J. Allard, PA DEP/BRP (Hard Copy and CD) Mr. W. M. Dean, NRC Region I, Regional Administrator (Hard Copy) Mr. P. W. Finney, NRC Sr. Resident Inspector (CD) Ms. T. Lewis, PA DEP/BRP (CD) Mr. R. Maiers, PA DEP/BRP (CD) Mr. W. Nestel, INPO (CD) Mr. R. G. Rolph, NRC Region I, Health Physicist (CD) Ms. D. Russo, ANI (CD) Mr. J. A. Whited, NRC Project Manager (Hard Copy) Mr. L. J. Winker, PA DEP/BRP (CD)

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