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**APR 29 2008**

U. S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Mail Stop O-P1-17  
11555 Rockville Pike  
Rockville, MD 20852

**SUSQUEHANNA STEAM ELECTRIC STATION  
RADIOACTIVE EFFLUENT RELEASE REPORT  
AND OFFSITE DOSE CALCULATION MANUAL  
PLA-6354**

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**Docket Nos. 50-387  
and 50-388**

In accordance with 10 CFR 50.36(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, 2007. 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, 2007.

Should you have any questions or require additional information, please contact Mr. Rocco R. Sgarro, Manager – Nuclear Regulatory Affairs, at (610) 774-7552.

B. T. McKinney

**Attachments**

Copy: Mr. D. J. Allard, DEP/BRP  
Mr. S. J. Collins, NRC Region I, Regional Administrator  
Mr. J. T. Furia, NRC Region I, Senior Health Physicist  
Mr. R. R. Janati, DEP/BRP  
Mr. J. W. Jaxheimer, NRC Sr. Resident Inspector  
Ms. T. Lewis, DEP/BRP  
Mr. R. Maiers, DEP/BRP  
Mr. W. Nestel, INPO  
Ms. D. Russo, ANI  
Mr. B. Vaidya, NRC Project Manager

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