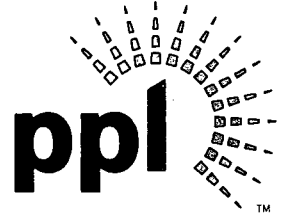


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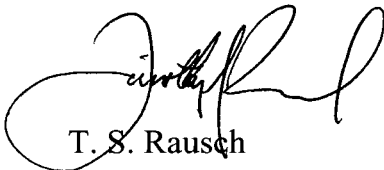
**SUSQUEHANNA STEAM ELECTRIC STATION  
RADIOACTIVE EFFLUENT RELEASE REPORT  
AND OFFSITE DOSE CALCULATION MANUAL  
PLA-6601**

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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, 2009. 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, 2009.

Should you have any questions or require additional information, please contact Mr. Michael H. Crowthers, Manager - Nuclear Regulatory Affairs at (610) 774-7766.



T. S. Rausch

**Attachments**

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

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