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 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylvania  
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 CLRTIS, N.W. Pennsylvania Power & Light Co.  
 RECIPIENT AFFILIATION  
 SCHWENCER, A. Licensing Branch 2

DOCKET #  
 05000387  
05000388

SUBJECT: Requests Tech Spec Sectin 3.11.1.1 exemption to delete max permissible concentration for Xe-131m from tabled limits for dissolved or entrained noble gases. Isotope will not be significant dose contributor.

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Pennsylvania Power & Light Company

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Norman W. Curtis  
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July 9, 1982

Mr. A. Schwencer, Chief  
Licensing Branch No. 2  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

SUSQUEHANNA STEAM ELECTRIC STATION  
CONCENTRATION LIMITS FOR RADIOACTIVE MATERIALS  
ER 100450 FILE 841-2  
PLA-1182

Docket Nos. 50-387  
50-388

Dear Mr. Schwencer:

Technical Specification 3.11.1.1 provides concentration limits for radioactive materials released in liquid effluents. Pennsylvania Power & Light Company has proposed and Nuclear Regulatory Commission has concurred that the limits for dissolved or entrained noble gases shall be as presented in the LaSalle Station Technical Specifications.

Pennsylvania Power & Light Company requests one exception to this listing of noble gases; that the maximum permissible concentration for Xe-131m be deleted. This isotope is not a significant direct fission product, having a fission yield of approximately 0.04%. The major source of Xe-131m is the decay of I-131, and this transformation occurs in only about 1.1% of the I-131 decays. The gamma radiation of concern from Xe-131m occurs in only approximately 2% of the Xe-131m decays.

Detection of such an extremely small contributor challenges the capabilities of analysis equipment, especially considering the concentrations of other isotopes expected in normal mixtures. Recognizing the source of Xe-131m, it is evident that it will not be a significant dose contributor and it will be controlled by limits on the precursor isotope, I-131. The factors stated above justify deletion of the isotope Xe-131m from the Table association with Specification 3.11.1.1.

Very truly yours,

*David P. Morgan*

N.W. Curtis  
Vice President-Engineering & Construction - Nuclear  
FTE

cc: R.L. Perch -NRC  
P. Stoddard - NRC  
R.R. Bottimore - NRC

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A PDR

