



# Pennsylvania Power & Light Company

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Bruce D. Kenyon  
Vice President-Nuclear Operations  
215/770-7502

**JUN 28 1985**

Dr. T. E. Murley  
Regional Administrator, Region I  
U.S. Nuclear Regulatory Commission  
631 Park Avenue  
King of Prussia, PA 19406

SUSQUEHANNA STEAM ELECTRIC STATION  
ANNUAL RADIOLOGICAL ENVIRONMENTAL  
OPERATING REPORT REVISIONS  
ER 100450  
PLA-2498

FILE 991

Docket Nos. 50-387  
and 50-388

Dear Dr. Murley:

Technical Specification 3.12.1 requires certain capabilities for Environmental Sample Analysis. These Lower Limits of Detection (LLD) for various radioisotopes are listed in Table 4.12.1-1. The Technical Specification also recognizes that occasionally uncontrollable circumstances may render the LLD's unachievable. In such cases, the contributing factors shall be identified and described in the Annual Radiological Environmental Operating Report.

For the samples collected in 1984 and reported in the Annual Report submitted to the NRC on April 30, 1985, the required LLD was not achieved for Ba-140 and/or La-140 on 16 required samples. PP&L recently noted that it failed to list the factors which caused the missed sensitivities. The 16 samples are listed in Attachment 1. The reason for the missed sensitivities was that the samples were not counted promptly enough at the vendor laboratory.

We have taken steps to assure that the analysis of the samples arriving at the laboratory will not be delayed. All analysis to date in 1985 have met the Technical Specification LLD requirement.

Attachment 2 contains revised pages for the 1984 Annual Radiological Environmental Monitoring Report. The revised copy footnotes those samples with missed LLD's and identifies the factors which caused the missed sensitivity.

If you have any questions, please contact us.

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1. The first part of the report is a general introduction to the subject of the study. It discusses the importance of the study and the objectives of the research.

2. The second part of the report is a detailed description of the methodology used in the study. It includes information about the sample size, the data collection methods, and the statistical analysis techniques.

3. The third part of the report is a presentation of the results of the study. It includes tables and graphs showing the data collected and the statistical analysis results.

4. The fourth part of the report is a discussion of the results and their implications. It discusses the findings of the study and how they relate to the research objectives.

5. The fifth part of the report is a conclusion and recommendations. It summarizes the findings of the study and provides recommendations for future research.

6. The sixth part of the report is a list of references. It includes a list of all the sources used in the study.

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Dr. T. E. Murley

Very truly yours,



B. D. Kenyon  
Vice President-Nuclear Operations

Attachment(s)

cc: Director of Nuclear Reactor Regulation  
Attention: Mr. W. R. Butler, Chief  
Licensing Branch No. 2  
Division of Licensing  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

M. J. Campagnone - NRC Bethesda  
R. H. Jacobs - NRC Resident