



# Pennsylvania Power & Light Company

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Norman W. Curtis  
Vice President-Engineering & Construction-Nuclear  
215/770-7501

**MAR 29 1984**

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

SUSQUEHANNA STEAM ELECTRIC STATION  
FINAL REPORT ON A DEFICIENCY INVOLVING  
JET PUMP CAVITATION DURING IHSI  
ER 100508 FILE 821-10  
PLA-2149

Docket No. 50-388

References: (1) PLA-1749 dated 7/21/83  
(2) PLA-1924 dated 11/14/83  
(3) PLA-2103 dated 3/6/84

Dear Mr. Murley

Attached is a copy of the final report regarding the cavitation incident involving the Unit 2 Loop A jet pumps. This report is entitled "Susquehanna Unit 2 Jet Pump Cavitation Vibration Measurements" and is submitted per the request of your Mr. R. L. Jacobs, NRC Senior Resident Inspector-Susquehanna.

Pursuant to 10CFR2.790, we request that the attached report be withheld from public inspection.

If you have any questions, please contact us.

Very truly yours,

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

Attachment

cc: Mr. R. L. Jacobs - NRC-SSS  
Mr. J. P. Durr - NRC-Region 1

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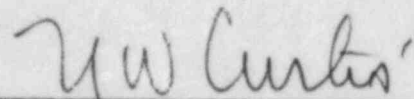
I, Norman W. Curtis, being duly sworn according to law depose and state as follows:

1. I am Vice President-Engineering & Construction-Nuclear, Pennsylvania Power & Light Company, and have been delegated the function of reviewing the information described in paragraph 2 which is sought to be withheld and have been authorized to apply for its withholding.

2. The information sought to be withheld is a report owned by PP&L entitled "Susquehanna Unit 2 Jet Pump Cavitation Vibration Measurements"

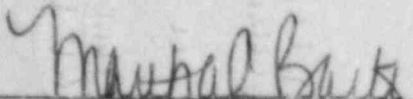
3. The report described in Par. 2 is confidential for the following reasons:

- a. The report contains proprietary information from General Electric Company (GE) and was submitted in confidence solely for the evaluation of the subject event.
- b. Access to the report is limited to PP&L personnel and consultants working on Susquehanna under contract to PP&L. The report has not been distributed externally.
- c. The methodology for model identification was developed by GE after considerable time and effort. Model identification is a common problem in dynamic testing. Public disclosure of the subject report would allow outside organizations access to this information without proper compensation to GE for their efforts.
- d. The criteria for vibration amplitudes was developed using a finite element dynamic analysis computer program. This program also is the result of considerable time and effort on the part of GE. The data derived from this computer analysis is provided in the subject report. An outside organization with access to this data could deduce some of the features of GE computer analysis. This information then could be applied by the outside organization without remuneration of GE.



Norman W. Curtis  
Vice President-Engineering &  
Construction-Nuclear

Sworn to and subscribed before  
me this 20th day of  
March 1984.



Notary Public  
MARTHA C. BARTO, Notary Public  
Allentown, Lehigh County, Pa.  
My Commission Expires Jan. 13, 1986