

Public Service  
Electric and Gas  
Company

Joseph J. Hagan

Public Service Electric and Gas Company P.O. Box 236, Hancocks Bridge, NJ 08038 609-339-1200

Vice President - Nuclear Operations

DEC 01 1993

NLR-N93188

U.S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555

Gentlemen:

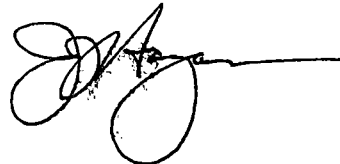
FITNESS FOR DUTY  
BLIND PERFORMANCE TEST REPORT  
SALEM AND HOPE CREEK GENERATING STATIONS  
DOCKET NOS. 50-272, 50-311, AND 50-354

This letter is to submit documentation of an unsatisfactory performance test result conducted at Public Service Electric and Gas's (PSE&G) secondary Health and Human Services (HHS)-certified laboratory. This notification is being made pursuant to the requirements of 10CFR26 Appendix A, Section 2.8(e)(4).

On October 6, 1993, drug-spiked specimens were sent to two PSE&G contracted laboratories in accordance with the Quality Control blind performance testing requirements. One of these laboratories incorrectly reported concentrations below PSE&G's established threshold (cut-off). PSE&G has conducted an investigation of this erroneous negative report and found that the sample was diluted by the laboratory due to the high drug concentration of the specimen. The diluted sample results were then compared to the concentration cut-off value without accounting for the dilution factor. As a result, an incorrect negative report was submitted by the laboratory to PSE&G.

Enclosed is the record of the investigative findings and the corrective action taken by the laboratory. Should you have any questions on the information provided, please contact S. Mannon of our Licensing staff (609-339-1129).

Sincerely,



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Enclosure (1)  
Affidavit

C Mr. T. T. Martin, Administrator - Region I  
U. S. Nuclear Regulatory Commission  
475 Allendale Road  
King of Prussia, PA 19406

Mr. J. C. Stone, Licensing Project Manager  
U. S. Nuclear Regulatory Commission  
One White Flint North  
11555 Rockville Pike  
Rockville, MD 20852

Mr. S. Dembek, Licensing Project Manager  
U. S. Nuclear Regulatory Commission  
One White Flint North  
11555 Rockville Pike  
Rockville, MD 20852

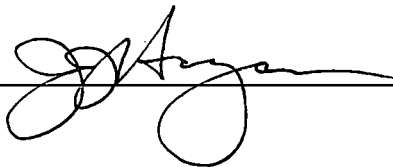
Mr. C. S. Marschall (S09)  
USNRC Senior Resident Inspector

Mr. K. Tosch, Manager, IV  
NJ Department of Environmental Protection  
Division of Environmental Quality  
Bureau of Nuclear Engineering  
CN 415  
Trenton, NJ 08625

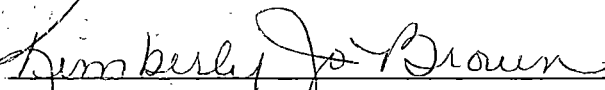
STATE OF NEW JERSEY )  
 ) SS.  
COUNTY OF SALEM )

J. J. Hagan, being duly sworn according to law deposes and says:

I am Vice President - Nuclear Engineering of Public Service Electric and Gas Company, and as such, I find the matters set forth in the above referenced letter, concerning the Salem Nos. Generating Station and the Hope Creek Generating Station, are true to the best of my knowledge, information and belief.

  
\_\_\_\_\_

Subscribed and Sworn to before me  
this 1st day of December, 1993

  
\_\_\_\_\_  
Notary Public of New Jersey

My Commission expires on \_\_\_\_\_  
**KIMBERLY JO BROWN**  
**NOTARY PUBLIC OF NEW JERSEY**  
My Commission Expires April 21, 1998

PSE&G MEDICAL DEPARTMENT - NUCLEAR  
URINE DRUG TESTING PROGRAM  
DISCREPANCY RECONCILIATION/RESOLUTION FORM

1. Report No. 93-001-B | Incident:  Patient Test Results  
Priority 2 |  Negative QC Test Results  
Issue Date 10-14-93 |  Blind Sample QC Test  
Response Due 10-28-93 |  Other \_\_\_\_\_

2. Description: Blind sample identified as Keith S. Parham  
499-40-4043 was submitted to both NIDA reference  
laboratories with whom we do business. The certificate of  
Analysis from the vendor stated the sample contained  
Amp. 2054 ng/ml and Meth 1982 ng/ml. The first NIDA Lab reported  
Amp. 1931 ng/ml and Meth >2000 ng/ml. PDLA reported the samp  
as negative. ACCESSION #1474700

3. Technical Evaluation: I have reviewed the response to our discrepancy  
notification from Hasmukh Shah, BD of PDLA dated October 25, 1993.  
Mr Shah has provided chain of custody documentation, screening information as well  
as the GCMS results. The quantitative report shows a reading of 374<sup>ng/ml</sup> for D-Amphetamine  
and 366 ng/ml for Methamphetamine. These results would be below our 500 ng/ml  
cut off levels. However as indicated in the identification code for this sample,  
"1474700 x 5" the result needed to be multiplied by 5. <sup>Therefore results are 1870 and 1830 respectively</sup> Mr Shah has implemented  
some safe guards outlined in his letter in order to prevent such an incident from  
happening again.  
Name/Title: Cecilia Homan MLT (ASCP) Date 11-3-93  
Organization: PSE+G

4. Final Disposition: \_\_\_\_\_  
False negative - Clinical administrator  
reported to Licensing on 11-12-93  
Mary J. Farnish - Medical Administrator

NRC Reportability Required: Yes  No

Name/Title R.J. Macra MD Date 11/12/93

#3.

However, since our use of PDLA is solely for the purpose of appeal cases, I recommend another NIDA certified laboratory be contacted to meet this need. Discrepancies in these situation are unacceptable.



October 25, 1993

**CONFIDENTIAL**

Ms. Mary T. Samuels  
PSE&G  
Medical Department  
Hancocks Bridge, NJ 08034

Dear Mary,

This letter is a response to the discrepancy notification received by PDLA on 10/21/93. A PSE&G specimen (accession #1474700) was received by PDLA on 10/12/93 and was screened on the same day by enzyme immunoassay and determined to be a presumptive positive for amphetamines. A GC/MS confirmation analysis was performed on 10/13/93 and resulted in a positive confirmation for d-amphetamine at a concentration of 1,870 ng/ml and methamphetamine at a concentration of 1,830 ng/ml. Please review the attached copies of technical logs, worksheets and chromatographic reports.

Unfortunately, the result described above was reported to PSE&G as negative rather than positive. After extensive review, I can only conclude that this erroneous report was the result of A) a human error in result entry or B) a computer database failure.

Coincidentally, at that time, we had a rare hardware failure in our computer system called a head dish assembly crash. This incident resulted in database degradation that otherwise was fully restored without a trace of any problems. I believe that it is more likely that your erroneous report is the result of a computer database degradation.

There is no excusing the erroneous report, however, no matter what its source. I apologize for our clerical failure and will demonstrate to you that changes have been implemented to further reduce the possibility of such a failure.

Mary, listed below are the corrective action that I have implemented:

1. A computer routine was added to question certifying scientists "have you double checked" and the scientist will have to type "yes" or "no" before a result is released into the data system.

**Executive Headquarters**  
100 Corporate Court  
South Plainfield, New Jersey 07080  
1-908-769-8500  
1-800-237-PDLA • FAX 1-908-769-2444

2. "Certifying Scientist Review Report" will be required to print on an in-house printer and be reviewed by a certifying scientist and compared to worksheet results before being authorized to print at PSE&G.
3. An audit trail program will monitor all activity and entries to the PSE&G account.

I hope that these improvements and our future performance help you to regain your confidence in PDLA. We appreciate your business and will be pleased to respond to any suggestions that you may have. Please call me at (908) 769-8500 if I can be of any further assistance and have a nice day.

Sincerely,



Hasmukh Shah, BLD  
Responsible Person  
Forensic Toxicology Director

HS/cdg  
Enclosure

**CONFIDENTIAL**