



Public Service Electric and Gas Company P.O. Box 236 Hancocks Bridge, New Jersey 08038-0236

Nuclear Business Unit

July 24, 1995
RPC95-154

50-272
311

Chief George Caporale
NJ Department of Environmental Protection
Bureau of Information Systems
CN-029
Trenton, NJ 08625

SALEM GENERATING STATION
NJPDES PERMIT NO. NJ0005622
INDUSTRIAL PROCESS WASTEWATER SLUDGE REPORT

Dear Sir:

Attached please find the Industrial Process Wastewater Sludge Report for the Non-Radiological Liquid Waste Disposal System (NRLWDS) for May 1995. In accordance with the November 1, 1993 letter from the NJDEP - Bureau of Pretreatment and Residuals, PSE&G is completing this report during months in which sludge is removed for disposal. During the month of May, sludge was removed from the NRLWDS and shipped to American Ecology, Inc. in Tennessee for ultimate disposal as low level radioactive waste. We are also providing the results of radiological and metals analyses for your information.

If you have any questions, please feel free to contact Pat McCabe of Licensing and Regulation at (609) 339-1245.

Sincerely,

J. J. Hagan
Vice President -
Nuclear Operations

Attachments (2)
Form T-VWX-010A
Form T-VWX-010B

010079

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PDR ADDCK 05000272
R PDR

IE25
11

NJDEP - SQAR
May 1995

2

7/24/95

C USNRC - Document Control Desk
Manager - Licensing and Regulation
M. Vaskis
D. Hurka
Central Record Facility
File
RPC95-154 *PS7*

MONITORING REPORT - TRANSMITTAL SHEET

NJPDES NO.

REPORTING PERIOD

MO. YR.

MO. YR.

0 0 0 5 6 2 2

0 5 9 5 THRU

0 5 9 5

PERMITTEE: Name Public Service Electric and Gas Company

Address P.O. Box 236

Hancock's Bridge, NJ 08038

FACILITY: Name Salem Nuclear Generating Station

Address Alloway Creek Neck Road

Hancock's Bridge (County) Salem

Telephone (609) 935-6000

FORMS ATTACHED (Indicate Quantity of Each)

SLUDGE REPORTS - Sanitary

T-VWX-007 T-VWX-008 T-VWX-009

SLUDGE REPORTS - Industrial

T-VWX-010A T-VWX-010B

WASTEWATER REPORTS

T-VWX-011 T-VWX-012 T-VWX-013

GROUNDWATER REPORTS

VWX-015(A,B) VMX-016 VMX-017

NPDES DISCHARGE MONITORING REPORT

EPA FORM 3320-1

OPERATING EXCEPTIONS

YES NO

DYE TESTING

TEMPORARY BYPASSING

DISINFECTION INTERRUPTION

MONITORING MALFUNCTIONS

UNITS OUT OF OPERATION

OTHER

(Detail any "Yes" on reverse side in appropriate space.)

NOTE: The "Hours Attended at Plant" on the reverse of this sheet must also be completed.

AUTHENTICATION- I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

LICENSED OPERATOR

PRINCIPAL EXECUTIVE OFFICER or DULY AUTHORIZED REPRESENTATIVE

Name (Printed) Richard F. Quinn

Name (Printed) Joseph J. Hagan

Grade & Registry No. N-2 N-0944

Title (Printed) VP - Nuclear Operations

Signature [Signature]

Signature [Signature]

Date July 21, 1995

Date 7-24-95

HOURS ATTENDED AT PLANT

Month 0|5 Year 9|5

Day of Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Licensed Operator	8	8	8	8	8	0	0	8	8	8	8	8	0	0	8	8
Others	4	4	4	4	4	0	0	4	4	4	4	4	0	0	4	4
Day of Month	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Licensed Operator	8	8	8	0	0	8	8	8	8	8	0	0	0	8	8	
Others	4	4	4	0	0	4	4	4	4	4	0	0	0	4	4	

INDUSTRIAL PROCESS WASTEWATER SLUDGE REPORT

DISCHARGE PERMIT NO.

REPORTING PERIOD
Mo. Yr.

0 0 0 5 6 2 2

0 5 1 9 9 5

4 Page 1 of 2

FACILITY NAME: Salem Non-Radiological Liquid Waste Disposal System

A. INFORMATION ON SLUDGE PRODUCED IN TREATMENT PROCESSES

1. Average Daily Sludge Production (Dry Tons/Day) < 10.01
 2. Average Daily Sludge Production (Gallons/Day)
 3. Average Total Solids of Sludge (% by weight) 10.0

B. INFORMATION ON SLUDGE REMOVED FOR ULTIMATE MANAGEMENT

1. Average Daily Sludge Removal (Dry Tons/Day)
 2. Average Daily Sludge Removal (Gallons/Day) 915
 3. Total Solids Before Dewatering (% by weight) 10.0
 4. Total Solids After Dewatering (% by weight) 18.0
 5. pH (Standard units) 9.5
 6. COD (Chemical Oxygen Demand) (mg/l)
 7. Total Oil and Grease (% by weight)

C. DISPOSAL METHOD(S) (see codes below)

METHOD CODE	DESCRIPTION	LANDFILL REGISTRY	HAULER REGISTRY	PERMIT NO.
5	AMERICAN ECOTOLOGY			R010375
	GIY			

DISPOSAL METHOD CODES:

- 1 - Land Application at a NJPDES Permitted Site
- 2 - State Approved Distribution Permit
- 3 - Incineration
- 4 - Ocean Disposal
- 5 - Out of State
- 6 - Managed as a Hazardous Waste
- 7 - Other (Specify: _____)
- 8 - None Removed
- 9 - Landfill

**D.

1. Total Nitrogen mg/kg
 2. Ammonia Nitrogen mg/kg
 3. Nitrate Nitrogen mg/kg
 4. Phosphorus mg/kg

E. SOLID WASTE CLASSIFICATION ID NUMBER

CERTIFICATION OF AUTHENTICITY

J. J. Hagan Vice President - Nuclear Operations
 Name of Authorized Agent (Print) Title Signature Date 7/24/95
 Laboratory Name National Environmental Testing, Inc. Cert. No. 08153

* Must be reported only if sludge is removed from Treatment Works site during the reporting period.
 - Must be reported only if sludge is applied to land for soil improvement.

W. 0.08
5/89

New Jersey Department of Environmental Protection
Division of Water Resources

INDUSTRIAL PROCESS WASTEWATER SLUDGE REPORT (Continued)

DISCHARGE PERMIT NO.

REPORTING PERIOD
Mo. Yr.

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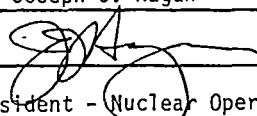
FACILITY NAME: Salem Non-Radiological Liquid Waste Disposal System

SLUDGE SAMPLING LOCATION: No. 1 Clarifier

STORET CODE	PARAMETER	TOTAL PHASE (dry weight basis, mg/kg)	NONE DETECTED
0 1 1 0 5	Aluminum	2 1 0 4	<input type="checkbox"/>
0 1 0 0 7	Barium	2 1 0 0	* <input type="checkbox"/>
0 1 0 2 7	Cadmium	1 0	* <input type="checkbox"/>
0 1 0 3 4	Chromium	4 7 9	<input type="checkbox"/>
0 1 0 3 7	Cobalt	2 0	* <input type="checkbox"/>
0 1 0 4 2	Copper	1 7 5	<input type="checkbox"/>
0 1 0 4 6	Iron	4 2 1 0	<input type="checkbox"/>
0 0 9 2 7	Magnesium	8 2 4 0	<input type="checkbox"/>
0 1 0 6 7	Nickel	5 9 9	<input type="checkbox"/>
0 1 0 9 2	Zinc	6 7 9	<input type="checkbox"/>
0 1 0 5 5	Manganese	9 5 8	<input type="checkbox"/>
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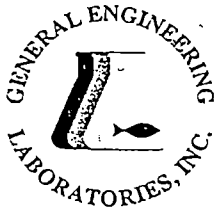
CERTIFICATION OF AUTHENTICITY

Name of Authorized Agent (print) Joseph J. Hagan

Signature of Authorized Agent  Date 7/24/75

Title of Authorized Agent Vice President - Nuclear Operations

Laboratory Name National Environmental Testing, Inc. Cert No. 08153



GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Mountain States Analytical
 1645 West 2200 South
 Salt Lake City, Utah 84119

Contact: Mr. Scott Fraser

cc: MTSA00194

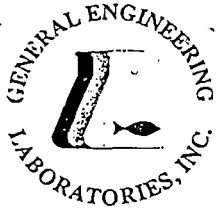
Report Date: January 18, 1995

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Sample ID : 6912-28315
 Lab ID : 9412450-08
 Matrix : Soil
 Date Collected : 12/19/94
 Date Received : 12/27/94
 Priority : Routine
 Collector : Client

Parameter	Qualifier	Result	Units	Method	Analyst	Date	Time	Batch
Radiological								
<i>Gamma PHA - 49 items</i>								
Actinium-228		3.49	+/- 0.743 pCi/g	EPI A-013B	MDS	01/12/95	1148	59024
Americium-241	<	2.00	+/- 0.403 pCi/g	EPI A-013B				
Antimony-124	<	1.00	+/- 0.187 pCi/g	EPI A-013B				
Antimony-125	<	0.523	+/- 0.256 pCi/g	EPI A-013B				
Barium-133	<	1.00	+/- 0.145 pCi/g	EPI A-013B				
Barium-140	<	2.01	+/- 1.06 pCi/g	EPI A-013B				
Beryllium-7	<	1.93	+/- 1.09 pCi/g	EPI A-013B				
Bismuth-212		1.90	+/- 1.38 pCi/g	EPI A-013B				
Bismuth-214		4.20	+/- 0.500 pCi/g	EPI A-013B				
Cerium-139	<	1.00	+/- 0.112 pCi/g	EPI A-013B				
Cerium-141	<	1.00	+/- 0.223 pCi/g	EPI A-013B				
Cerium-144	<	1.08	+/- 0.637 pCi/g	EPI A-013B				
Cesium-134		0.344	+/- 0.144 pCi/g	EPI A-013B				
Cesium-136	<	1.06	+/- 0.538 pCi/g	EPI A-013B				
Cesium-137		1.30	+/- 0.261 pCi/g	EPI A-013B				
Chromium-51	<	2.37	+/- 1.34 pCi/g	EPI A-013B				
Cobalt-56	<	1.00	+/- 0.136 pCi/g	EPI A-013B				
Cobalt-57	<	0.141	+/- 0.0742 pCi/g	EPI A-013B				
Cobalt-58	<	1.00	+/- 0.127 pCi/g	EPI A-013B				
Cobalt-60		3.62	+/- 0.421 pCi/g	EPI A-013B				
Europium-152	<	0.523	+/- 0.286 pCi/g	EPI A-013B				
Europium-154	<	0.945	+/- 0.571 pCi/g	EPI A-013B				
Europium-155	<	1.00	+/- 0.411 pCi/g	EPI A-013B				
Iodine-131	<	5.00	+/- 0.709 pCi/g	EPI A-013B				
Iridium-192	<	1.00	+/- 0.107 pCi/g	EPI A-013B				
Iron-59	<	1.00	+/- 0.264 pCi/g	EPI A-013B				
Lead-212		4.68	+/- 0.382 pCi/g	EPI A-013B				
Lead-214		5.38	+/- 0.625 pCi/g	EPI A-013B				





GENERAL ENGINEERING LABORATORIES

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SC	10120	10582
TN	02934	
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 1645 West 2200 South
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Contact: Mr. Scott Fraser

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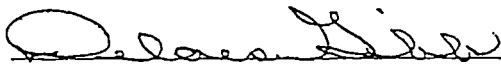
Report Date: January 18, 1995

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Sample ID : 6912-28315

Parameter	Qualifier	Result	Units	Method	Analyst	Date	Time	Batch
Manganese-54	<	0.233	+/- 0.119 pCi/g	EPI A-013B				
Mercury-203	<	1.00	+/- 0.132 pCi/g	EPI A-013B	MDS	01/12/95	1148	59024
Neodymium-147	<	4.25	+/- 2.45 pCi/g	EPI A-013B				
Neptunium-239	<	1.00	+/- 0.517 pCi/g	EPI A-013B				
Niobium-94	<	1.00	+/- 0.101 pCi/g	EPI A-013B				
Niobium-95	<	1.00	+/- 0.269 pCi/g	EPI A-013B				
Potassium-40	<	2.03	+/- 1.67 pCi/g	EPI A-013B				
Promethium-144	<	0.161	+/- 0.0886 pCi/g	EPI A-013B				
Promethium-146	<	0.232	+/- 0.124 pCi/g	EPI A-013B				
Radium-226		4.20	+/- 0.500 pCi/g	EPI A-013B				
Radium-228		3.49	+/- 0.743 pCi/g	EPI A-013B				
Ruthenium-106	<	1.64	+/- 0.927 pCi/g	EPI A-013B				
Silver-110M	<	1.00	+/- 0.122 pCi/g	EPI A-013B				
Sodium-22	<	0.700	+/- 0.0834 pCi/g	EPI A-013B				
Thallium-208	<	2.00	+/- 0.278 pCi/g	EPI A-013B				
Thorium-234	<	5.82	+/- 3.37 pCi/g	EPI A-013B				
Tin-113	<	1.00	+/- 0.137 pCi/g	EPI A-013B				
Uranium-235	<	1.00	+/- 0.586 pCi/g	EPI A-013B				
Yttrium-88	<	0.217	+/- 0.109 pCi/g	EPI A-013B				
Zinc-65	<	0.523	+/- 0.319 pCi/g	EPI A-013B				
Zirconium-95	<	1.00	+/- 0.223 pCi/g	EPI A-013B				

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Nancy Slater at (803) 556-8171.


 Analytical Report Specialist