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Public Service Electric and Gas Company P.O. Box 168 Hancocks Bridge, New Jersey 08038

Salem Nuclear Generating Station

November 10, 1978

Director, Division of Water Resources  
N.J. Department of Environmental Protection  
P. O. Box 2809  
Trenton, New Jersey 08625

Attention: Delaware Basin

Dear Sir:

Attached is the Wastewater Treatment Report for the  
month of October, 1978 for the Sewage Treatment Plant  
at the Salem Generating Station.

Very truly yours,

A handwritten signature in cursive script, appearing to read "H. J. Midura".

H. J. Midura  
Manager - Salem Generating Station

LKM:jcm  
16.5.18.R1

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NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF WATER RESOURCES  
BUREAU OF WATER POLLUTION CONTROL  
WASTEWATER TREATMENT REPORT

DELAWARE

County: Salem  
Municipality: Lower Alloways Creek  
Township

Name of Utility: PSE&G-Salem Generating Station

Design Flow: 12,500 GPD  
Plant Phone: (609) 365-7000  
Month October 1978

Day of the month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Avg.
Receiving Watercourse	7776 typical value based on drainage area and average rainfall																															
Upstream from Effluent MGD	7776 typical value based on drainage area and average rainfall																															
Plant Effluent Flow for 24-hr Period 1000 G/D	1.7	2.6	.6	1.7	.6	.6	.6	.6	.6	.6	3.6	.6	3.4	1.7	1.7	3.4	1.7	.6	1.1	3.6	.6	.6	.6	.6	.6	1.7	1.7	3.4	1.7	.6	.6	1.5
Plant Effluent Flow Maximum Rate 1000 G/D	9.8	2.6	.6	9.8	1.1	1.7	1.7	.6	.6	1.7	2.6	.6	2.6	9.8	9.8	2.6	9.8	3.6	6.2	2.6	3.6	3.6	3.6	3.6	3.6	9.8	9.8	2.6	9.8	3.6	3.6	2.9
Chlorine	immediate	.3	.3	.2	.2	.4			.4	.3	.5	.5	.4			.4	.4	.4	.4	.3			.4	.3	.7	.5	.6			.6	.6	
	Residual mg/l developed	4.4	.9	1.1	4.4	1.7			2.1	1.3	1.3	4.3	1.6			1.6	1.9	2.2	1.2	1.6			1.7	1.5	2.5	2.1	2.5			2.5	2.5	
Sludge Removed from Plant (Gals., lbs., ft <sup>3</sup> )	1500														1500																	
Settleable Solids Final Effluent mg/l	<.1	<.1	<.1	<.1	<.1			<.1	<.1	<.1	<.1	<.1			<.1	<.1	<.1	<.1	<.1	<.1			<.1	<.1	<.1	<.1	<.1			<.1	<.1	
Suspended Solids Final Effluent mg/l		16.2								14.9							13.2															
B.O.D. Final Effluent mg/l		2								7							6								8						15	
Other Laboratory Tests Performed	Diss. O <sub>2</sub>	2.8	4.2	2.6	2.0	3.2			4.8	2.1	2.9	2.8	2.8			2.2	1.8	3.8	1.3	2.5			.9	2.0	1.4	2.0	1.4			1.3	1.9	
	COD		27								23							17							57							47
Hrs. Attend. at Plant	Fecal Coliform		42							42							42								42						42	
	pH	6.3	6.4	6.3	5.7	5.4			6.1	5.5	5.7	5.7	6.3			5.6	6.2	5.5	5.7	5.4			5.8	6.4	6.5	6.0	6.4			7.3	7.5	
Temp. (°C)	Temp. (°C)	20	20	19	19	19			21	20	20	20	19			19	14	19	16	15			29	16	16	16	25			25	25	
	Lic. Op.						3		2			3				2							3			2				2		8
Other	Other	8	8	8	8	8			8	8	8	8	8			8	8	8	8	8			8	8	8	8	8			8	8	

Note every instance of temporary bypassing of any units or interruption of disinfection and reason.

Dates when outfall was dye tested and results

Remarks:

Plant not equipped with totalizing meter-effluent flow based on best estimate available.

Number of Connections and flow at end of month	Residential _____
	Apartments _____
	Commercial _____
	Industrial _____

Licensed Operator: K. L. Homan Grade: S-2  
Registry Number: S-3697

I hereby certify the above to be correct to the best of my knowledge.  
Signed: [Signature] Title: SUPV IN CHARGE

This report is to be forwarded on or before the 10th of the month following that for which the report is made out, to the NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION, Bureau of Water Pollution Control, P.O. Box 1390, Trenton, NJ 08625