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USNRC
Docket Numbers 50-272&50-311
Washington, DC
20555

**NEW JERSEY POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT
SALEM GENERATING STATION
NJPDES PERMIT NJ0005622**

Dear Sir:

Attached is a copy of the Discharge Monitoring Report for the Salem Generating Station for the month of December 2016. The original report has been submitted to the NJDEP via electronic DMR.

This report is required by and prepared specifically for the New Jersey Department of Environmental Protection (NJDEP). It presents only the observed results of measurements and analyses required to be performed by the above agencies. The choice of the measurement devices and analytical methods are controlled by the EPA and the NJDEP, not by the company, and there are limitations on the accuracy of such measurement devices and analytical techniques even when used and maintained as required. Accordingly, this report is not intended as an assertion that any instrument has measured, or that any reading or analytical result represents the true value with absolute accuracy, nor is it an endorsement of the suitability of any analytical or measurement procedure.

If you have any questions concerning this report, please feel free to contact Mark Pyle (856) 339-2331.

Sincerely,

A handwritten signature in black ink, appearing to read "CM", written over a horizontal line.

Charles V. McFeaters
Site Vice President – Salem

Attachment (12 DMR's)

C Executive Director, DRBC

IEZ5
NRR

EXPLANATION OF CONDITIONS

December 2016

The following explanations are included to clarify possible deviation from permit conditions.

General - The columns labeled "No. Ex" on the enclosed DMR tabulate the number of daily discharge values outside the indicated limits.

Data reporting and accuracy reflect the working environment, the design capabilities and reliability of the monitoring instruments and operating equipment.

Deviations from required sampling, analysis monitoring and reporting methods and periodicities are noted on the respective transmittal sheet.

Results reported on the Discharge Monitoring Report forms are consistent with permit limits, data supplied from contract laboratories, the December 2007 revision of the NJDEP DMR Instruction Manual and specific guidance from DEP personnel.

ATTACHMENT:
None

EXPLANATION OF EXCEEDANCES

December 2016

The following exceedance(s) are included in the attached report and explained below.

EXPLANATION

None

COUNTY OF SALEM
STATE OF NEW JERSEY

I, Charles V. Mcfeaters, of full age, being duly sworn according to law, upon my oath depose and say:

1. I am the Site Vice President – Salem for PSEG Nuclear, and as such am authorized to sign Salem's Discharge Monitoring Reports submitted to the New Jersey Department of Environmental Protection pursuant to the Station's New Jersey Pollutant Discharge Elimination System permit.
2. 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.
3. The signature on the attached Discharge Monitoring Reports is my signature and I am submitting this affidavit in satisfaction of the requirement that my signature be notarized.

Charles V. Mcfeaters
Site Vice President – Salem



State of New Jersey
Department of Environmental Protection
Surface Water Discharge Monitoring Report

PI: 46814

Shell Generation Date: 10/1/2016

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - FACA SW Outfall FACA - 12/01/2016 - 12/31/2016

Permittee:

PSE&G NUCLEAR LLC
80 PARK PLAZA

NEWARK, NJ 07101

Location of Activity:

PSEG NUCLEAR LLC SALEM GENERATING STATION
ALLOWAY CREEK NECK RD

HANCOCKS BRIDGE, NJ 08038

Report Recipient:

PSEG NUCLEAR LLC
PO BOX 236/N21

HANCOCKS BRIDGE, NJ 08038

NJPDES Permit Number: NJ0005622
Monitoring Period: 12/01/2016 To 12/31/2016
Monitored Location: FACA SW Outfall FACA
Monitored Location Group:
Region / County: Southern / Salem

Check if Applicable: ☐ No Discharge This Monitoring Period

Monitoring Report Comments:

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State of New Jersey
Department of Environmental Protection
Surface Water Discharge Monitoring Report

PI: 46814

Shell Generation Date: 10/1/2016

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - FACA SW Outfall FACA - 12/01/2016 - 12/31/2016

Discharge Monitoring Data:											
Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No Ex.	Frequency of Analysis	Sample Type
Temperature, oC 00010 G Raw Sew/influent	Sample Measurement	*****	*****	*****	*****	6.7	10.6	DEG.C	0	Continuous	CONTIN
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	REPORT 01DAMX			Continuous	CONTIN
	QL	*****	*****		*****	*****	*****				
Temperature, oC 00010 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	15.0	18.4	DEG.C	0	Continuous	CONTIN
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	43.3 01DAMX			Continuous	CONTIN
	QL	*****	*****		*****	*****	*****				
Temperature, oC 00010 2 Effluent Net Value	Sample Measurement	*****	*****	*****	*****	8.3	9.6	DEG.C	0	1 Day	CALCTD
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	15.3 01DAMX			1/Day	CALCTD
	QL	*****	*****		*****	*****	*****				
Lab Certification # 99999 99 Lab	Sample Measurement	PA010	06003	*****	17327			*****	0	Not Applic	NOT AP
	Permit Requirement	REPORT Lab #	REPORT Lab #		REPORT Lab #	REPORT Lab #	REPORT Lab #			Not Applic	NOT AP
	QL	*****	*****		*****	*****	*****				



Shell Generation Date: 10/1/2016

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - FACB SW Outfall FACB - 12/01/2016 - 12/31/2016

NEWARK, NJ 07101

HANCOCKS BRIDGE, NJ 08038

HANCOCKS BRIDGE, NJ 08038

NJPDES Permit Number:	NJ0005622
Monitoring Period:	12/01/2016 To 12/31/2016
Monitored Location:	FACB SW Outfall FACB
Monitored Location Group:	
Region / County:	Southern / Salem

Check if Applicable: ☐ No Discharge This Monitoring Period

Monitoring Report Comments:



State of New Jersey
Department of Environmental Protection
Surface Water Discharge Monitoring Report

PI: 46814

Shell Generation Date: 10/1/2016

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - FACB SW Outfall FACB - 12/01/2016 - 12/31/2016

Discharge Monitoring Data:											
Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No Ex.	Frequency of Analysis	Sample Type
Temperature, oC	Sample Measurement	*****	*****	*****	*****	6.7	10.6	DEG.C	0	Continuous	CONTIN
00010 G	Permit Requirement	*****	*****		*****	REPORT 01MOAV	REPORT 01DAMX			Continuous	CONTIN
Raw Sew/influent	QL	*****	*****		*****	*****	*****				
Temperature, oC	Sample Measurement	*****	*****	*****	*****	14.8	18.6	DEG.C	0	Continuous	CONTIN
00010 1	Permit Requirement	*****	*****		*****	REPORT 01MOAV	43.3 01DAMX			Continuous	CONTIN
Effluent Gross Value	QL	*****	*****		*****	*****	*****				
Temperature, oC	Sample Measurement	*****	*****	*****	*****	8.1	9.3	DEG.C	0	1 Day	CALCTD
00010 2	Permit Requirement	*****	*****		*****	REPORT 01MOAV	15.3 01DAMX			1/Day	CALCTD
Effluent Net Value	QL	*****	*****		*****	*****	*****				
Lab Certification #	Sample Measurement	PA010	06003		17327				0	Not Applic	NOT AP
99999 99	Permit Requirement	REPORT Lab #	REPORT Lab #		REPORT Lab #	REPORT Lab #	REPORT Lab #			Not Applic	NOT AP
Lab	QL	*****	*****		*****	*****	*****				



State of New Jersey
Department of Environmental Protection

Surface Water Discharge Monitoring Report

PI: 46814

Shell Generation Date: 10/1/2016

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - FACC SW Outfall FACC - 12/01/2016 - 12/31/2016

Permittee:

PSE&G NUCLEAR LLC
80 PARK PLAZA

NEWARK, NJ 07101

Location of Activity:

PSEG NUCLEAR LLC SALEM GENERATING STATION
ALLOWAY CREEK NECK RD

HANCOCKS BRIDGE, NJ 08038

Report Recipient:

PSEG NUCLEAR LLC
PO BOX 236/N21

HANCOCKS BRIDGE, NJ 08038

NJPDES Permit Number: NJ0005622
Monitoring Period: 12/01/2016 To 12/31/2016
Monitored Location: FACC SW Outfall FACC
Monitored Location Group:
Region / County: Southern / Salem

Check if Applicable: ☐ No Discharge This Monitoring Period

Monitoring Report Comments:

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State of New Jersey
Department of Environmental Protection
Surface Water Discharge Monitoring Report

PI: 46814

Shell Generation Date: 10/1/2016

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - FACC SW Outfall FACC - 12/01/2016 - 12/31/2016

Discharge Monitoring Data:											
Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No Ex.	Frequency of Analysis	Sample Type
Flow, In Conduit or Thru Treatment Plant 50050 G Raw Sew/influent	Sample Measurement	2765	2856	MGD	*****	*****	*****	*****	0	1 Day	CALCTD
	Permit Requirement	3024	REPORT		*****	*****	*****			1/Day	CALCTD
	QL	*****	*****		*****	*****	*****				
Thermal Discharge Million BTUs per Hr 00015 2 Effluent Net Value	Sample Measurement	14500	14765	MBTU/HR	*****	*****	*****	*****	0	1 Day	CALCTD
	Permit Requirement	REPORT	30600		*****	*****	*****			1/Day	CALCTD
	QL	*****	*****		*****	*****	*****				
Lab Certification # 99999 99 Lab	Sample Measurement	PA010	06003		17327				0	Not Applic	NOT AP
	Permit Requirement	REPORT	REPORT		REPORT	REPORT	REPORT			Not Applic	NOT AP
	QL	*****	*****		*****	*****	*****				



State of New Jersey
Department of Environmental Protection

Surface Water Discharge Monitoring Report

PI: 46814

Shell Generation Date: 10/1/2016

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - 048C SW Outfall 48C - 12/01/2016 - 12/31/2016

Permittee:

PSE&G NUCLEAR LLC
80 PARK PLAZA

NEWARK, NJ 07101

Location of Activity:

PSEG NUCLEAR LLC SALEM GENERATING STATION
ALLOWAY CREEK NECK RD

HANCOCKS BRIDGE, NJ 08038

Report Recipient:

PSEG NUCLEAR LLC
PO BOX 236/N21

HANCOCKS BRIDGE, NJ 08038

NJPDES Permit Number: NJ0005622
Monitoring Period: 12/01/2016 To 12/31/2016
Monitored Location: 048C SW Outfall 48C
Monitored Location Group:
Region / County: Southern / Salem

Check if Applicable: ☐ No Discharge This Monitoring Period

Monitoring Report Comments:

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State of New Jersey
Department of Environmental Protection

Surface Water Discharge Monitoring Report

PI: 46814

Shell Generation Date: 10/1/2016

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - 048C SW Outfall 48C - 12/01/2016 - 12/31/2016

Discharge Monitoring Data:											
Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No Ex.	Frequency of Analysis	Sample Type
Flow, In Conduit or Thru Treatment Plant 50050 1 Effluent Gross Value	Sample Measurement	0.1745	0.3748	MGD	*****	*****	*****	*****	0	1 Day	CALCTD
	Permit Requirement	REPORT 01MOAV	REPORT 01DAMX		*****	*****	*****		1/Day	CALCTD	
	QL	*****	*****		*****	*****	*****				
Solids, Total Suspended 00530 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	11	16	MG/L	0	2 Month	COMPOS
	Permit Requirement	*****	*****		*****	30 01MOAV	100 01DAMX		2/Month	COMPOS	
	QL	*****	*****		*****	*****	*****				
Nitrogen, Ammonia Total (as N) 00610 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	<1	1	MG/L	0	2 Month	COMPOS
	Permit Requirement	*****	*****		*****	35 01MOAV	70 01DAMX		2/Month	COMPOS	
	QL	*****	*****		*****	*****	*****				
Petroleum Hydrocarbons 00551 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	<2	<2	MG/L	0	2 Month	GRAB
	Permit Requirement	*****	*****		*****	10 01MOAV	15 01DAMX		2/Month	GRAB	
	QL	*****	*****		*****	*****	*****				
Carbon, Tot Organic (TOC) 00680 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	10	10	MG/L	0	2 Month	COMPOS
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	50 01DAMX		2/Month	COMPOS	
	QL	*****	*****		*****	*****	*****				
Lab Certification # 99999 99 Lab	Sample Measurement	17327	PA010	*****	06003			*****	0	Not Applic	NOT AP
	Permit Requirement	REPORT Lab #	REPORT Lab #		REPORT Lab #	REPORT Lab #	REPORT Lab #		Not Applic	NOT AP	
	QL	*****	*****		*****	*****	*****				



State of New Jersey
Department of Environmental Protection
Surface Water Discharge Monitoring Report

PI: 46814

Shell Generation Date: 10/1/2016

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - 481A SW Outfall 481A - 12/01/2016 - 12/31/2016

Permittee:

PSEG NUCLEAR LLC
80 PARK PLAZA

NEWARK, NJ 07101

Location of Activity:

PSEG NUCLEAR LLC SALEM GENERATING STATION
ALLOWAY CREEK NECK RD

HANCOCKS BRIDGE, NJ 08038

Report Recipient:

PSEG NUCLEAR LLC
PO BOX 236/N21

HANCOCKS BRIDGE, NJ 08038

NJPDES Permit Number: NJ0005622
Monitoring Period: 12/01/2016 To 12/31/2016
Monitored Location: 481A SW Outfall 481A
Monitored Location Group:
Region / County: Southern / Salem

Check if Applicable: ☐ No Discharge This Monitoring Period

Monitoring Report Comments:

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State of New Jersey
Department of Environmental Protection

Surface Water Discharge Monitoring Report

PI: 46814

Shell Generation Date: 10/1/2016

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - 481A SW Outfall 481A - 12/01/2016 - 12/31/2016

Discharge Monitoring Data:

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No Ex.	Frequency of Analysis	Sample Type
Flow, In Conduit or Thru Treatment Plant	Sample Measurement	472	501	MGD	*****	*****	*****	*****	0	1 Day	CALCTD
50050 1	Permit Requirement	REPORT 01MOAV	REPORT 01DAMX		*****	*****	*****			1/Day	CALCTD
Effluent Gross Value	QL	*****	*****		*****	*****	*****				
pH	Sample Measurement	*****	*****	*****	7.8	*****	8.0	SU	0	1 Week	GRAB
00400 1	Permit Requirement	*****	*****		6.0 01DAMN	*****	9.0 01DAMX			1/Week	GRAB
Effluent Gross Value	QL	*****	*****		*****	*****	*****				
pH	Sample Measurement	*****	*****	*****	8.0	*****	8.1	SU	0	1 Week	GRAB
00400 7	Permit Requirement	*****	*****		REPORT 01DAMN	*****	REPORT 01DAMX			1/Week	GRAB
Intake From Stream	QL	*****	*****		*****	*****	*****				
LC50 Statre 96hr Acu Cyprinodon	Sample Measurement	*****	*****	*****	CODE=N Not Required	*****	*****	%EFFL	0	2 Year	COMPOS
TAN6A 1	Permit Requirement	*****	*****		REPORT 01DAMN	*****	*****			2/Year	COMPOS
Effluent Gross Value	AL	*****	*****		50	*****	*****				
Chlorine Produced Oxidants	Sample Measurement	*****	*****	*****	CODE=N Not Required	*****	*****	MG/L	0	3 Week	GRAB
*CPOX 1	Permit Requirement	*****	*****		*****	0.3 01MOAV	0.5 01DAMX			3/Week	GRAB
Effluent Gross Value	QL	*****	*****		*****	*****	*****				
Chlorine Produced Oxidants	Sample Measurement	*****	*****	*****	*****	<0.1	<0.1	MG/L	0	3 Week	GRAB
*CPOX 1	Permit Requirement	*****	*****		*****	REPORT 01MOAV	0.2 01DAMX			3/Week	GRAB
Effluent Gross Value	QL	*****	*****		*****	*****	*****				
Temperature, oC	Sample Measurement	*****	*****	*****	*****	14.9	20.9	DEG.C	0	1 Day	CONTIN
00010 1	Permit Requirement	*****	*****		*****	REPORT 01MOAV	REPORT 01DAMX			1/Day	CONTIN
Effluent Gross Value	QL	*****	*****		*****	*****	*****				
Lab Certification #	Sample Measurement	PA010	06003	*****	17327	*****	*****	*****		Not Applic	NOT AP
99999 99	Permit Requirement	REPORT Lab #	REPORT Lab #		REPORT Lab #	REPORT Lab #	REPORT Lab #			Not Applic	NOT AP
Lab	QL	*****	*****		*****	*****	*****				



State of New Jersey
Department of Environmental Protection

Surface Water Discharge Monitoring Report

PI: 46814

Shell Generation Date: 10/1/2016

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - 482A SW Outfall 482A - 12/01/2016 - 12/31/2016

Permittee:

PSE&G NUCLEAR LLC
80 PARK PLAZA

NEWARK, NJ 07101

Location of Activity:

PSEG NUCLEAR LLC SALEM GENERATING STATION
ALLOWAY CREEK NECK RD

HANCOCKS BRIDGE, NJ 08038

Report Recipient:

PSEG NUCLEAR LLC
PO BOX 236/N21

HANCOCKS BRIDGE, NJ 08038

NJPDES Permit Number: NJ0005622
Monitoring Period: 12/01/2016 To 12/31/2016
Monitored Location: 482A SW Outfall 482A
Monitored Location Group:
Region / County: Southern / Salem

Check if Applicable: ☐ No Discharge This Monitoring Period

Monitoring Report Comments:

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State of New Jersey
Department of Environmental Protection

Surface Water Discharge Monitoring Report

PI: 46814

Shell Generation Date: 10/1/2016

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - 482A SW Outfall 482A - 12/01/2016 - 12/31/2016

Discharge Monitoring Data:											
Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No Ex.	Frequency of Analysis	Sample Type
Flow, In Conduit or Thru Treatment Plant 50050 1 Effluent Gross Value	Sample Measurement	466	480	MGD	*****	*****	*****	*****	0	1 Day	CALCTD
	Permit Requirement	REPORT 01MOAV	REPORT 01DAMX		*****	*****	*****		1/Day	CALCTD	
	QL	*****	*****		*****	*****	*****				
pH 00400 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	7.8	*****	7.9	SU	0	1 Week	GRAB
	Permit Requirement	*****	*****		6.0 01DAMN	*****	9.0 01DAMX		1/Week	GRAB	
	QL	*****	*****		*****	*****	*****				
pH 00400 7 Intake From Stream	Sample Measurement	*****	*****	*****	8.0	*****	8.1	SU	0	1 Week	GRAB
	Permit Requirement	*****	*****		REPORT 01DAMN	*****	REPORT 01DAMX		1/Week	GRAB	
	QL	*****	*****		*****	*****	*****				
LC50 Statre 96hr Acu Cyprinodon TAN6A 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	CODE=N Not Required			%EFFL	0	2 Year	COMPOS
	Permit Requirement	*****	*****		REPORT 01DAMN	*****	*****		2/Year	COMPOS	
	AL	*****	*****		50	*****	*****				
Chlorine Produced Oxidants *CPOX 1 Effluent Gross Value 1	Sample Measurement	*****	*****	*****	CODE=N Not Required			MG/L	0	3 Week	GRAB
	Permit Requirement	*****	*****		0.3 01MOAV	*****	0.5 01DAMX		3/Week	GRAB	
	QL	*****	*****		*****	*****	*****				
Chlorine Produced Oxidants *CPOX 1 Effluent Gross Value 2	Sample Measurement	*****	*****	*****	<0.1	*****	<0.1	MG/L	0	3 Week	GRAB
	Permit Requirement	*****	*****		REPORT 01MOAV	*****	0.2 01DAMX		3/Week	GRAB	
	QL	*****	*****		*****	*****	*****				
Temperature, oC 00010 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	15.0	*****	21.7	DEG.C	0	1 Day	CONTIN
	Permit Requirement	*****	*****		REPORT 01MOAV	*****	REPORT 01DAMX		1/Day	CONTIN	
	QL	*****	*****		*****	*****	*****				
Lab Certification # 99999 99 Lab	Sample Measurement	PA010	06003	*****	17327	*****	*****	*****	0	Not Applic	NOT AP
Permit Requirement	REPORT Lab #	REPORT Lab #	REPORT Lab #		REPORT Lab #	REPORT Lab #	Not Applic		NOT AP		
QL	*****	*****	*****		*****	*****					



State of New Jersey
Department of Environmental Protection

Surface Water Discharge Monitoring Report

PI: 46814

Shell Generation Date: 10/1/2016

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - 483A SW Outfall 483A - 12/01/2016 - 12/31/2016

Permittee:

PSE&G NUCLEAR LLC
80 PARK PLAZA

NEWARK, NJ 07101

Location of Activity:

PSEG NUCLEAR LLC SALEM GENERATING STATION
ALLOWAY CREEK NECK RD

HANCOCKS BRIDGE, NJ 08038

Report Recipient:

PSEG NUCLEAR LLC
PO BOX 236/N21

HANCOCKS BRIDGE, NJ 08038

NJPDES Permit Number: NJ0005622

Monitoring Period: 12/01/2016 To 12/31/2016

Monitored Location: 483A SW Outfall 483A

Monitored Location Group:

Region / County: Southern / Salem

Check if Applicable: ☐ No Discharge This Monitoring Period

Monitoring Report Comments:

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State of New Jersey
Department of Environmental Protection

Surface Water Discharge Monitoring Report

PI: 46814

Shell Generation Date: 10/1/2016

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - 483A SW Outfall 483A - 12/01/2016 - 12/31/2016

Discharge Monitoring Data:											
Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No Ex.	Frequency of Analysis	Sample Type
Flow, In Conduit or Thru Treatment Plant 50050 1 Effluent Gross Value	Sample Measurement	447	481	MGD	*****	*****	*****	*****	0	1 Day	CALCTD
	Permit Requirement	REPORT 01MOAV	REPORT 01DAMX		*****	*****	*****		1/Day	CALCTD	
	QL	*****	*****		*****	*****	*****				
pH 00400 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	7.8	*****	7.9	SU	0	1 Week	GRAB
	Permit Requirement	*****	*****		6.0 01DAMN	*****	9.0 01DAMX		1/Week	GRAB	
	QL	*****	*****		*****	*****	*****				
pH 00400 7 Intake From Stream	Sample Measurement	*****	*****	*****	8.0	*****	8.1	SU	0	1 Week	GRAB
	Permit Requirement	*****	*****		REPORT 01DAMN	*****	REPORT 01DAMX		1/Week	GRAB	
	QL	*****	*****		*****	*****	*****				
Chlorine Produced Oxidants *CPOX 1 Effluent Gross Value 1	Sample Measurement	*****	*****	*****	CODE=N Not Required E=N Not Required			MG/L	0	3 Week	GRAB
	Permit Requirement	*****	*****		*****	0.3 01MOAV	0.5 01DAMX		3/Week	GRAB	
	QL	*****	*****		*****	*****	*****				
Chlorine Produced Oxidants *CPOX 1 Effluent Gross Value 2	Sample Measurement	*****	*****	*****	*****	<0.1	<0.1	MG/L	0	3 Week	GRAB
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	0.2 01DAMX		3/Week	GRAB	
	QL	*****	*****		*****	*****	*****				
Temperature, oC 00010 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	15.5	19.2	DEG.C	0	1 Day	CONTIN
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	REPORT 01DAMX		1/Day	CONTIN	
	QL	*****	*****		*****	*****	*****				
Lab Certification # 99999 99 Lab	Sample Measurement	PA010	06003	*****	17327			*****	0	Not Applic	NOT AP
	Permit Requirement	REPORT Lab #	REPORT Lab #		REPORT Lab #	REPORT Lab #	REPORT Lab #		Not Applic	NOT AP	
	QL	*****	*****		*****	*****	*****				



State of New Jersey
Department of Environmental Protection

Surface Water Discharge Monitoring Report

PI: 46814

Shell Generation Date: 10/1/2016

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - 484A SW Outfall 484A - 12/01/2016 - 12/31/2016

Permittee:

PSE&G NUCLEAR LLC
80 PARK PLAZA

NEWARK, NJ 07101

Location of Activity:

PSEG NUCLEAR LLC SALEM GENERATING STATION
ALLOWAY CREEK NECK RD

HANCOCKS BRIDGE, NJ 08038

Report Recipient:

PSEG NUCLEAR LLC
PO BOX 236/N21

HANCOCKS BRIDGE, NJ 08038

NJPDES Permit Number: NJ0005622

Monitoring Period: 12/01/2016 To 12/31/2016

Monitored Location: 484A SW Outfall 484A

Monitored Location Group:
Region / County: Southern / Salem

Check if Applicable: ☐ No Discharge This Monitoring Period

Monitoring Report Comments:

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State of New Jersey
Department of Environmental Protection

Surface Water Discharge Monitoring Report

PI: 46814

Shell Generation Date: 10/1/2016

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - 484A SW Outfall 484A - 12/01/2016 - 12/31/2016

Discharge Monitoring Data:

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No Ex.	Frequency of Analysis	Sample Type
Flow, In Conduit or Thru Treatment Plant 50050 1 Effluent Gross Value	Sample Measurement	476	501	MGD	*****	*****	*****	*****	0	1 Day	CALCTD
	Permit Requirement	REPORT 01MOAV	REPORT 01DAMX		*****	*****	*****			1/Day	CALCTD
	QL	*****	*****		*****	*****	*****				
pH 00400 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	7.8	*****	8.0	SU	0	1 Week	GRAB
	Permit Requirement	*****	*****		6.0 01DAMN	*****	9.0 01DAMX			1/Week	GRAB
	QL	*****	*****		*****	*****	*****				
pH 00400 7 Intake From Stream	Sample Measurement	*****	*****	*****	8.0	*****	8.1	SU	0	1 Week	GRAB
	Permit Requirement	*****	*****		REPORT 01DAMN	*****	REPORT 01DAMX			1/Week	GRAB
	QL	*****	*****		*****	*****	*****				
LC50 Statre 96hr Acu Cyprinodon TAN6A 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	CODE=N Not Required			%EFFL	0	2 Year	COMPOS
	Permit Requirement	*****	*****		REPORT 01DAMN	*****	*****			2/Year	COMPOS
	AL	*****	*****		50	*****	*****				
Chlorine Produced Oxidants *CPOX 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	CODE=N Not Required E=N Not Required			MG/L	0	3 Week	GRAB
	Permit Requirement	*****	*****		*****	0.3 01MOAV	0.5 01DAMX			3/Week	GRAB
	QL	*****	*****		*****	*****	*****				
Chlorine Produced Oxidants *CPOX 2 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	<0.1	<0.1	MG/L	0	3 Week	GRAB
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	0.2 01DAMX			3/Week	GRAB
	QL	*****	*****		*****	*****	*****				
Temperature, °C 00010 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	15.0	21.9	DEG.C	0	1 Day	CONTIN
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	REPORT 01DAMX			1/Day	CONTIN
	QL	*****	*****		*****	*****	*****				
Lab Certification # 99999 99 Lab	Sample Measurement	PA010	06003	*****	17327			*****		Not Applic	NOT AP
	Permit Requirement	REPORT Lab #	REPORT Lab #		REPORT Lab #	REPORT Lab #	REPORT Lab #			Not Applic	NOT AP
	QL	*****	*****		*****	*****	*****				



State of New Jersey
Department of Environmental Protection

Surface Water Discharge Monitoring Report

PI: 46814

Shell Generation Date: 10/1/2016

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - 485A SW Outfall 485A - 12/01/2016 - 12/31/2016

Permittee:

PSE&G NUCLEAR LLC
80 PARK PLAZA

NEWARK, NJ 07101

Location of Activity:

PSEG NUCLEAR LLC SALEM GENERATING STATION
ALLOWAY CREEK NECK RD

HANCOCKS BRIDGE, NJ 08038

Report Recipient:

PSEG NUCLEAR LLC
PO BOX 236/N21

HANCOCKS BRIDGE, NJ 08038

NJPDES Permit Number: NJ0005622
Monitoring Period: 12/01/2016 To 12/31/2016
Monitored Location: 485A SW Outfall 485A
Monitored Location Group:
Region / County: Southern / Salem

Check if Applicable: ☐ No Discharge This Monitoring Period

Monitoring Report Comments:

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State of New Jersey
Department of Environmental Protection

Surface Water Discharge Monitoring Report

PI: 46814

Shell Generation Date: 10/1/2016

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - 485A SW Outfall 485A - 12/01/2016 - 12/31/2016

Discharge Monitoring Data:

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No Ex.	Frequency of Analysis	Sample Type
Flow, In Conduit or Thru Treatment Plant 50050 1 Effluent Gross Value	Sample Measurement	492	493	MGD	*****	*****	*****	*****	0	1 Day	CALCTD
	Permit Requirement	REPORT 01MOAV	REPORT 01DAMX		*****	*****	*****				
	QL	*****	*****		*****	*****	*****				
pH 00400 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	7.8	*****	7.9	SU	0	1 Week	GRAB
	Permit Requirement	*****	*****		6.0 01DAMN	*****	9.0 01DAMX				
	QL	*****	*****		*****	*****	*****				
pH 00400 7 Intake From Stream	Sample Measurement	*****	*****	*****	8.0	*****	8.1	SU	0	1 Week	GRAB
	Permit Requirement	*****	*****		REPORT 01DAMN	*****	REPORT 01DAMX				
	QL	*****	*****		*****	*****	*****				
LC50 Statre 96hr Acu Cypripodon TAN6A 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	>100	*****	*****	%EFFL	0	2 Year	COMPOS
	Permit Requirement	*****	*****		REPORT 01DAMN	*****	*****				
	AL	*****	*****		50	*****	*****				
Chlorine Produced Oxidants *CPOX 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	CODE=N Not Required E=N Not Required			MG/L	0	3 Week	GRAB
	Permit Requirement	*****	*****		*****	0.3 01MOAV	0.5 01DAMX				
	QL	*****	*****		*****	*****	*****				
Chlorine Produced Oxidants *CPOX 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	<0.1	<0.1	MG/L	0	3 Week	GRAB
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	0.2 01DAMX				
	QL	*****	*****		*****	*****	*****				
Temperature, oC 00010 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	14.8	19.1	DEG.C	0	1 Day	CONTIN
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	REPORT 01DAMX				
	QL	*****	*****		*****	*****	*****				
Lab Certification # 99999 99 Lab	Sample Measurement	PA010	06003	*****	17327	CT405	*****	*****	Not Applic	Not Applic	NOT AP
	Permit Requirement	REPORT Lab #	REPORT Lab #		REPORT Lab #	REPORT Lab #	REPORT Lab #				
	QL	*****	*****		*****	*****	*****				



State of New Jersey
Department of Environmental Protection
Surface Water Discharge Monitoring Report

PI: 46814

Shell Generation Date: 10/1/2016

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - 486A SW Outfall 486A - 12/01/2016 - 12/31/2016

Permittee:

PSEG NUCLEAR LLC
80 PARK PLAZA

NEWARK, NJ 07101

Location of Activity:

PSEG NUCLEAR LLC SALEM GENERATING STATION
ALLOWAY CREEK NECK RD

HANCOCKS BRIDGE, NJ 08038

Report Recipient:

PSEG NUCLEAR LLC
PO BOX 236/N21

HANCOCKS BRIDGE, NJ 08038

NJPDES Permit Number: NJ0005622
Monitoring Period: 12/01/2016 To 12/31/2016
Monitored Location: 486A SW Outfall 486A
Monitored Location Group:
Region / County: Southern / Salem

Check if Applicable: ☐ No Discharge This Monitoring Period

Monitoring Report Comments:

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State of New Jersey
Department of Environmental Protection

Surface Water Discharge Monitoring Report

PI: 46814

Shell Generation Date: 10/1/2016

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - 486A SW Outfall 486A - 12/01/2016 - 12/31/2016

Discharge Monitoring Data:

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No Ex.	Frequency of Analysis	Sample Type
Flow, In Conduit or Thru Treatment Plant 50050 G Raw Sew/Influent	Sample Measurement	74.19	95.10	MGD	*****	*****	*****	*****	0	1 Day	CALCTD
	Permit Requirement	REPORT 01MOAV	REPORT 01DAMX		*****	*****	*****			1/Day	CALCTD
	QL	*****	*****		*****	*****	*****				
Flow, In Conduit or Thru Treatment Plant 50050 1 Effluent Gross Value	Sample Measurement	483	494	MGD	*****	*****	*****	*****	0	1 Day	CALCTD
	Permit Requirement	REPORT 01MOAV	REPORT 01DAMX		*****	*****	*****			1/Day	CALCTD
	QL	*****	*****		*****	*****	*****				
pH 00400 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	7.8	*****	7.9	SU	0	1 Week	GRAB
	Permit Requirement	*****	*****		6.0 01DAMN	*****	9.0 01DAMX			1/Week	GRAB
	QL	*****	*****		*****	*****	*****				
pH 00400 7 Intake From Stream	Sample Measurement	*****	*****	*****	8.0	*****	8.1	SU	0	1 Week	GRAB
	Permit Requirement	*****	*****		REPORT 01DAMN	*****	REPORT 01DAMX			1/Week	GRAB
	QL	*****	*****		*****	*****	*****				
Chlorine Produced Oxidants *CPOX 1 Effluent Gross Value 1	Sample Measurement	*****	*****	*****	CODE=N Not Required E=N Not Required			MG/L	0	3 Week	GRAB
	Permit Requirement	*****	*****		*****	0.3 01MOAV	0.5 01DAMX			3/Week	GRAB
	QL	*****	*****		*****	*****	*****				
Chlorine Produced Oxidants *CPOX 1 Effluent Gross Value 2	Sample Measurement	*****	*****	*****	*****	<0.1	<0.1	MG/L	0	3 Week	GRAB
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	0.2 01DAMX			3/Week	GRAB
	QL	*****	*****		*****	*****	*****				
Temperature, oC 00010 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	14.8	19.0	DEG.C	0	1 Day	CONTIN
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	REPORT 01DAMX			1/Day	CONTIN
	QL	*****	*****		*****	*****	*****				
Lab Certification # 99999 99 Lab	Sample Measurement	PA010	06003	*****	17327			*****	0	Not Applic	NOT AP
	Permit Requirement	REPORT Lab #	REPORT Lab #		REPORT Lab #	REPORT Lab #	REPORT Lab #			Not Applic	NOT AP
	QL	*****	*****		*****	*****	*****				



State of New Jersey
Department of Environmental Protection

Surface Water Discharge Monitoring Report

PI: 46814

Shell Generation Date: 10/1/2016

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - 487B SW Outfall 487B - 12/01/2016 - 12/31/2016

Permittee:

PSE&G NUCLEAR LLC
80 PARK PLAZA

NEWARK, NJ 07101

Location of Activity:

PSEG NUCLEAR LLC SALEM GENERATING STATION
ALLOWAY CREEK NECK RD

HANCOCKS BRIDGE, NJ 08038

Report Recipient:

PSEG NUCLEAR LLC
PO BOX 236/N21

HANCOCKS BRIDGE, NJ 08038

NJPDES Permit Number: NJ0005622
Monitoring Period: 12/01/2016 To 12/31/2016
Monitored Location: 487B SW Outfall 487B
Monitored Location Group:
Region / County: Southern / Salem

Check if Applicable: ☒ No Discharge This Monitoring Period

Monitoring Report Comments:

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State of New Jersey
Department of Environmental Protection

Surface Water Discharge Monitoring Report

PI: 46814

Shell Generation Date: 10/1/2016

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - 487B SW Outfall 487B - 12/01/2016 - 12/31/2016

Discharge Monitoring Data:																	
Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No Ex.	Frequency of Analysis	Sample Type						
Flow, In Conduit or Thru Treatment Plant 50050 1 Effluent Gross Value	Sample Measurement	E=N	Not Required	E=N	Not Required	*****	*****	*****	*****	0	1 Batch	CALCTD					
	Permit Requirement	REPORT	REPORT	MGD	*****	*****	*****	*****			1/Batch	CALCTD					
	QL	*****	*****										*****	*****	*****		
pH 00400 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	CODE=N	Not Required	CODE=N	Not Required	SU	0	1 Batch	GRAB					
	Permit Requirement	*****	*****							6.0	*****	9.0	01DAMX	1/Batch	GRAB		
	QL	*****	*****							*****	*****	*****	*****				
Solids, Total Suspended 00530 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	CODE=N	Not Required	E=N	Not Required	0	1 Batch	GRAB					
	Permit Requirement	*****	*****							*****	REPORT	100	MG/L	1/Batch	GRAB		
	QL	*****	*****							*****	*****	01MOAV	01DAMX	*****			
Temperature, oC 00010 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	CODE=N	Not Required	E=N	Not Required	0	1 Batch	GRAB					
	Permit Requirement	*****	*****							*****	REPORT	43.3	DEG.C	1/Batch	GRAB		
	QL	*****	*****							*****	*****	01MOAV	01DAMX	*****			
Petroleum Hydrocarbons 00551 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	CODE=N	Not Required	E=N	Not Required	0	1 Batch	GRAB					
	Permit Requirement	*****	*****							*****	*****	REPORT	15	MG/L	1/Batch	GRAB	
	QL	*****	*****							*****	*****	*****	01MOAV	01DAMX	*****		
Carbon, Tot Organic (TOC) 00680 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	CODE=N	Not Required	E=N	Not Required	0	1 Batch	GRAB					
	Permit Requirement	*****	*****							*****	*****	REPORT	50	MG/L	1/Batch	GRAB	
	QL	*****	*****							*****	*****	*****	01MOAV	01DAMX	*****		
Lab Certification # 99999 99 Lab	Sample Measurement	PA010	06003	*****	*****	17327	*****	*****	*****	0	Not Applic	NOT AP					
	Permit Requirement	REPORT	REPORT							*****	*****	*****	*****	*****	*****	*****	*****
	QL	*****	*****							*****	*****	*****	*****	*****	*****	*****	*****



State of New Jersey
Department of Environmental Protection
Surface Water Discharge Monitoring Report

PI: 46814

Shell Generation Date: 10/1/2016

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - 489A SW Outfall 489A - 12/01/2016 - 12/31/2016

Permittee:

PSEG NUCLEAR LLC
80 PARK PLAZA

NEWARK, NJ 07101

Location of Activity:

PSEG NUCLEAR LLC SALEM GENERATING STATION
ALLOWAY CREEK NECK RD

HANCOCKS BRIDGE, NJ 08038

Report Recipient:

PSEG NUCLEAR LLC
PO BOX 236/N21

HANCOCKS BRIDGE, NJ 08038

NJPDES Permit Number: NJ0005622
Monitoring Period: 12/01/2016 To 12/31/2016
Monitored Location: 489A SW Outfall 489A
Monitored Location Group:
Region / County: Southern / Salem

Check if Applicable: ☐ No Discharge This Monitoring Period

Monitoring Report Comments:

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State of New Jersey
Department of Environmental Protection
Surface Water Discharge Monitoring Report

PI: 46814

Shell Generation Date: 10/1/2016

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - 489A SW Outfall 489A - 12/01/2016 - 12/31/2016

Discharge Monitoring Data:											
Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No Ex.	Frequency of Analysis	Sample Type
Flow, In Conduit or Thru Treatment Plant 50050 1 Effluent Gross Value	Sample Measurement	0.0588	0.0588	MGD	*****	*****	*****	*****	0	1 Month	CALCTD
	Permit Requirement	REPORT 01MOAV	REPORT 01DAMX		*****	*****	*****			1/Month	CALCTD
	QL	*****	*****		*****	*****	*****				
pH 00400 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	7.3	*****	7.3	SU	0	1 Month	GRAB
	Permit Requirement	*****	*****		6.0 01DAMN	*****	9.0 01DAMX			1/Month	GRAB
	QL	*****	*****		*****	*****	*****				
Solids, Total Suspended 00530 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	4	4	*****	MG/L	0	1 Month	GRAB
	Permit Requirement	*****	*****		100 01DAMX	30 01MOAV	*****			1/Month	GRAB
	QL	*****	*****		*****	*****	*****				
Petroleum Hydrocarbons 00551 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	<2	<2	MG/L	0	1 Month	GRAB
	Permit Requirement	*****	*****		*****	10 01MOAV	15 01DAMX			1/Month	GRAB
	QL	*****	*****		*****	*****	*****				
Carbon, Tot Organic (TOC) 00680 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	2	2	MG/L	0	1 Month	GRAB
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	50 01DAMX			1/Month	GRAB
	QL	*****	*****		*****	*****	*****				
Lab Certification # 99999 99 Lab	Sample Measurement	PA010	06003		17327				0	Not Applic	NOT AP
	Permit Requirement	REPORT Lab #	REPORT Lab #		REPORT Lab #	REPORT Lab #	REPORT Lab #			Not Applic	NOT AP
	QL	*****	*****		*****	*****	*****				