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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 2017. 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 Jenny Shelton (856) 339-1138.

Sincerely,

A handwritten signature in black ink, appearing to read "C.V. Mcfeaters", with a long horizontal line extending from the end of the signature.

Charles V. Mcfeaters
Site Vice President – Salem

Attachment (12 DMR's)

C Executive Director, DRBC

IEZ5
NRR

EXPLANATION OF CONDITIONS

December 2017

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.

Outfall 489A parameter "Flow, In Conduit or Thru Treatment Plant Effluent Gross Value" has been estimated due to the failure of the pump hour run time meter used to calculate flow thru the system. Monthly rain fall amounts and associated pump run times from previous monitoring periods were used to calculate the flow estimate.

ATTACHMENT:
None

EXPLANATION OF EXCEEDANCES

December 2017

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.



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: 10/1/2017

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - FACA SW Outfall FACA - 12/01/2017 - 12/31/2017

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: 12/01/2017 To 12/31/2017
Monitored Location: FACA SW Outfall FACA
Monitored Location Group:
Region / County: Southern / Salem

Check if Applicable: ☐ No Discharge This Monitoring Period

Monitoring Report Comments:

Please refer all permit related questions regarding this monitoring report form to your permit writer. Your permit writer's name and telephone number can be found on the cover letter of your permit. Questions about the electronic submission of this report may be referred to the Office of Permit Management at (609)984-4428.



State of New Jersey
Department of Environmental Protection

Surface Water Discharge Monitoring Report

PI: 46814

Shell Generation Date: 10/1/2017

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - FACA SW Outfall FACA - 12/01/2017 - 12/31/2017

Discharge Monitoring Data:											
Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No Ex.	Frequency of Analysis	Sample Type
Temperature, °C 00010 G Raw Sew/Influent	Sample Measurement	*****	*****	*****	*****	7.0	10.6	DEG.C	0	Continuous	CONTIN
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	REPORT 01DAMX			Continuous	CONTIN
	QL	*****	*****		*****	*****	*****				
Temperature, °C 00010 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	15.0	19.2	DEG.C	0	Continuous	CONTIN
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	43.3 01DAMX			Continuous	CONTIN
	QL	*****	*****		*****	*****	*****				
Temperature, °C 00010 2 Effluent Net Value	Sample Measurement	*****	*****	*****	*****	8.0	9.3	DEG.C	0	1 Day	CALCTD
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	15.3 01DAMX			1/Day	CALCTD
	QL	*****	*****		*****	*****	*****				
Lab Certification # 99999 99 Lab	Sample Measurement	06003	PA051		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: 10/1/2017

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - FACB SW Outfall FACB - 12/01/2017 - 12/31/2017

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: 12/01/2017 To 12/31/2017
Monitored Location: FACB SW Outfall FACB
Monitored Location Group:
Region / County: Southern / Salem

Check if Applicable: ☐ No Discharge This Monitoring Period

Monitoring Report Comments:

Please refer all permit related questions regarding this monitoring report form to your permit writer. Your permit writer's name and telephone number can be found on the cover letter of your permit. Questions about the electronic submission of this report may be referred to the Office of Permit Management at (609)984-4428.



State of New Jersey
Department of Environmental Protection

Surface Water Discharge Monitoring Report

PI: 46814

Shell Generation Date: 10/1/2017

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - FACB SW Outfall FACB - 12/01/2017 - 12/31/2017

Discharge Monitoring Data:											
Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No Ex.	Frequency of Analysis	Sample Type
Temperature, °C 00010 G Raw Sew/Influent	Sample Measurement	*****	*****	*****	*****	7.0	10.6	DEG.C	0	Continuous	CONTIN
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	REPORT 01DAMX			Continuous	CONTIN
	QL	*****	*****		*****	*****	*****				
Temperature, °C 00010 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	15.4	20.0	DEG.C	0	Continuous	CONTIN
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	43.3 01DAMX			Continuous	CONTIN
	QL	*****	*****		*****	*****	*****				
Temperature, °C 00010 2 Effluent Net Value	Sample Measurement	*****	*****	*****	*****	8.4	9.3	DEG.C	0	1 Day	CALCTD
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	15.3 01DAMX			1/Day	CALCTD
	QL	*****	*****		*****	*****	*****				
Lab Certification # 99999 99 Lab	Sample Measurement	06003	PA051	*****	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: 10/1/2017

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - FACC SW Outfall FACC - 12/01/2017 - 12/31/2017

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: 12/01/2017 To 12/31/2017
Monitored Location: FACC SW Outfall FACC
Monitored Location Group:
Region / County: Southern / Salem

Check if Applicable: ☐ No Discharge This Monitoring Period

Monitoring Report Comments:

Please refer all permit related questions regarding this monitoring report form to your permit writer. Your permit writer's name and telephone number can be found on the cover letter of your permit. Questions about the electronic submission of this report may be referred to the Office of Permit Management at (609)984-4428.



State of New Jersey
Department of Environmental Protection

Surface Water Discharge Monitoring Report

PI: 46814

Shell Generation Date: 10/1/2017

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - FACC SW Outfall FACC - 12/01/2017 - 12/31/2017

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	2736	2856	MGD	*****	*****	*****	*****	0	1 Day	CALCTD
	Permit Requirement	3024	REPORT		*****	*****	*****				
	Requirement	01MOAV	01DAMX		*****	*****	*****			1/Day	CALCTD
	QL	*****	*****		*****	*****	*****				
Thermal Discharge Million BTUs per Hr 00015 2 Effluent Net Value	Sample Measurement	14368	14680	MBTU/HR	*****	*****	*****	*****	0	1 Day	CALCTD
	Permit Requirement	REPORT	30600		*****	*****	*****				
	Requirement	01MOAV	01DAMX		*****	*****	*****			1/Day	CALCTD
	QL	*****	*****		*****	*****	*****				
Lab Certification # 99999 99 Lab	Sample Measurement	06003	PA051		17327				0	Not Applic	NOT AP
	Permit Requirement	REPORT	REPORT		REPORT	REPORT	REPORT				
	Requirement	Lab #	Lab #		Lab #	Lab #	Lab #			Not Applic	NOT AP
	QL	*****	*****		*****	*****	*****				



State of New Jersey
Department of Environmental Protection

Surface Water Discharge Monitoring Report

PI: 46814

Shell Generation Date: 10/1/2017

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - 048C SW Outfall 48C - 12/01/2017 - 12/31/2017

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: 12/01/2017 To 12/31/2017
Monitored Location: 048C SW Outfall 48C
Monitored Location Group:
Region / County: Southern / Salem

Check if Applicable: ☐ No Discharge This Monitoring Period

Monitoring Report Comments:

Please refer all permit related questions regarding this monitoring report form to your permit writer. Your permit writer's name and telephone number can be found on the cover letter of your permit. Questions about the electronic submission of this report may be referred to the Office of Permit Management at (609)984-4428.



State of New Jersey
Department of Environmental Protection

Surface Water Discharge Monitoring Report

PI: 46814

Shell Generation Date: 10/1/2017

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - 048C SW Outfall 48C - 12/01/2017 - 12/31/2017

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	0.2989	0.6035	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	*****	*****	*****	*****	7	8	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	2	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	*****	*****	*****	*****	<5	<5	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	06003	PA051	*****	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: 10/1/2017

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - 481A SW Outfall 481A - 12/01/2017 - 12/31/2017

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: 12/01/2017 To 12/31/2017
Monitored Location: 481A SW Outfall 481A
Monitored Location Group:
Region / County: Southern / Salem

Check if Applicable: ☐ No Discharge This Monitoring Period

Monitoring Report Comments:

Please refer all permit related questions regarding this monitoring report form to your permit writer. Your permit writer's name and telephone number can be found on the cover letter of your permit. Questions about the electronic submission of this report may be referred to the Office of Permit Management at (609)984-4428.



State of New Jersey
Department of Environmental Protection

Surface Water Discharge Monitoring Report

PI: 46814

Shell Generation Date: 10/1/2017

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - 481A SW Outfall 481A - 12/01/2017 - 12/31/2017

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	490	501	MGD	*****	*****	*****	*****	0	1 Day	CALCTD
	Permit Requirement	REPORT 01MOAV	REPORT 01DAMX		*****	*****	*****				
	Requirement	*****	*****		*****	*****	*****				
	QL	*****	*****		*****	*****	*****				
pH 00400 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	7.5	*****	7.8	SU	0	1 Week	GRAB
	Permit Requirement	*****	*****		6.0	*****	9.0				
	Requirement	*****	*****		01DAMN	*****	01DAMX				
	QL	*****	*****		*****	*****	*****				
pH 00400 7 Intake From Stream	Sample Measurement	*****	*****	*****	7.6	*****	8.2	SU	0	1 Week	GRAB
	Permit Requirement	*****	*****		REPORT 01DAMN	*****	REPORT 01DAMX				
	Requirement	*****	*****		*****	*****	*****				
	QL	*****	*****		*****	*****	*****				
LC50 Statre 96hr Acu Cyprinodon TANGA 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	CODE=N Not Required			*****	0	2 Year	COMPOS
	Permit Requirement	*****	*****		REPORT 01DAMN	*****	*****				
	Requirement	*****	*****		*****	*****	*****				
	AL	*****	*****		50	*****	*****				
Chlorine Produced Oxidants *CPOX 1 Effluent Gross Value 1	Sample Measurement	*****	*****	*****	CODE=N Not Required			*****	0	3 Week	GRAB
	Permit Requirement	*****	*****		*****	0.3	0.5				
	Requirement	*****	*****		*****	01MOAV	01DAMX				
	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				
	Requirement	*****	*****		*****	*****	01DAMX				
	QL	*****	*****		*****	*****	*****				
Temperature, oC 00010 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	15.3	20.7	DEG.C	0	1 Day	CONTIN
	Permit Requirement	*****	*****		*****	*****	*****				
	Requirement	*****	*****		*****	REPORT 01MOAV	REPORT 01DAMX				
	QL	*****	*****		*****	*****	*****				
Lab Certification # 99999 99 Lab	Sample Measurement	06003	PA051	*****	17327	*****	*****	*****	0	Not Applic	NOT AP
	Permit Requirement	*****	*****		*****	*****	*****				
	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: 10/1/2017

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - 482A SW Outfall 482A - 12/01/2017 - 12/31/2017

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: 12/01/2017 To 12/31/2017
Monitored Location: 482A SW Outfall 482A
Monitored Location Group:
Region / County: Southern / Salem

Check if Applicable: ☐ No Discharge This Monitoring Period

Monitoring Report Comments:

Please refer all permit related questions regarding this monitoring report form to your permit writer. Your permit writer's name and telephone number can be found on the cover letter of your permit. Questions about the electronic submission of this report may be referred to the Office of Permit Management at (609)984-4428.



State of New Jersey
Department of Environmental Protection

Surface Water Discharge Monitoring Report

PI: 46814

Shell Generation Date: 10/1/2017

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - 482A SW Outfall 482A - 12/01/2017 - 12/31/2017

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	467	480	MGD	*****	*****	*****	*****	0	1 Day	CALCTD
	Permit Requirement	REPORT 01MOAV	REPORT 01DAMX		*****	*****	*****			1/Day	CALCTD
	QL	*****	*****		*****	*****	*****				
pH 00400 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	7.6	*****	7.8	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	*****	*****	*****	7.6	*****	8.2	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
	QL	*****	*****		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	*****	*****	*****	*****	14.9	22.0	DEG.C	0	1 Day	CONTIN
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	REPORT 01DAMX			1/Day	CONTIN
	QL	*****	*****		*****	*****	*****				
Lab Certification # 99999 99 Lab	Sample Measurement	06003	PA051	*****	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: 10/1/2017

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - 483A SW Outfall 483A - 12/01/2017 - 12/31/2017

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: 12/01/2017 To 12/31/2017
Monitored Location: 483A SW Outfall 483A
Monitored Location Group:
Region / County: Southern / Salem

Check if Applicable: ☐ No Discharge This Monitoring Period

Monitoring Report Comments:

Please refer all permit related questions regarding this monitoring report form to your permit writer. Your permit writer's name and telephone number can be found on the cover letter of your permit. Questions about the electronic submission of this report may be referred to the Office of Permit Management at (609)984-4428.



State of New Jersey
Department of Environmental Protection

Surface Water Discharge Monitoring Report

PI: 46814

Shell Generation Date: 10/1/2017

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - 483A SW Outfall 483A - 12/01/2017 - 12/31/2017

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	462	481	MGD	*****	*****	*****	*****	0	1 Day	CALCTD
	Permit Requirement	REPORT 01MOAV	REPORT 01DAMX		*****	*****	*****			1/Day	CALCTD
	QL	*****	*****		*****	*****	*****				
pH 00400 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	7.6	*****	7.7	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	*****	*****	*****	7.6	*****	8.2	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	*****	*****	*****	*****	15.0	20.8	DEG.C	0	1 Day	CONTIN
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	REPORT 01DAMX			1/Day	CONTIN
	QL	*****	*****		*****	*****	*****				
Lab Certification # 99999 99 Lab	Sample Measurement	06003	PA051	*****	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: 10/1/2017

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - 484A SW Outfall 484A - 12/01/2017 - 12/31/2017

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: 12/01/2017 To 12/31/2017
Monitored Location: 484A SW Outfall 484A
Monitored Location Group:
Region / County: Southern / Salem

Check if Applicable: ☐ No Discharge This Monitoring Period

Monitoring Report Comments:

Please refer all permit related questions regarding this monitoring report form to your permit writer. Your permit writer's name and telephone number can be found on the cover letter of your permit. Questions about the electronic submission of this report may be referred to the Office of Permit Management at (609)984-4428.



State of New Jersey
Department of Environmental Protection

Surface Water Discharge Monitoring Report

PI: 46814

Shell Generation Date: 10/1/2017

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - 484A SW Outfall 484A - 12/01/2017 - 12/31/2017

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	449	494	MGD	*****	*****	*****	*****	0	1 Day	CALCTD	
	Permit Requirement	REPORT 01MOAV	REPORT 01DAMX		*****	*****	*****					
	QL	*****	*****		*****	*****	*****					
pH 00400 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	7.6	*****	7.7	SU	0	1 Week	GRAB	
	Permit Requirement	*****	*****		6.0 01DAMN	*****	9.0 01DAMX					
	QL	*****	*****		*****	*****	*****					
pH 00400 7 Intake From Stream	Sample Measurement	*****	*****	*****	7.6	*****	8.2	SU	0	1 Week	GRAB	
	Permit Requirement	*****	*****		REPORT 01DAMN	*****	REPORT 01DAMX					
	QL	*****	*****		*****	*****	*****					
LC50 Statre 96hr Acu Cyprinodon TAN6A 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	CODE=N Not Required			*****	0	2 Year	COMPOS	
	Permit Requirement	*****	*****		REPORT 01DAMN	*****	*****					
	AL	*****	*****		50	*****	*****					
Chlorine Produced Oxidants *CPOX 1 Effluent Gross Value 1	Sample Measurement	*****	*****	*****	CODE=N Not Required			*****	0	3 Week	GRAB	
	Permit Requirement	*****	*****		*****	0.3 01MOAV	0.5 01DAMX					
	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					
	QL	*****	*****		*****	*****	*****					
Temperature, °C 00010 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	15.6	23.4	DEG.C	0	1 Day	CONTIN	
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	REPORT 01DAMX					
	QL	*****	*****		*****	*****	*****					
Lab Certification # 99999 99 Lab	Sample Measurement	06003	PA051	*****	17327	*****	*****	*****	0	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: 10/1/2017

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - 485A SW Outfall 485A - 12/01/2017 - 12/31/2017

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: 12/01/2017 To 12/31/2017
Monitored Location: 485A SW Outfall 485A
Monitored Location Group:
Region / County: Southern / Salem

Check if Applicable: ☐ No Discharge This Monitoring Period

Monitoring Report Comments:

Please refer all permit related questions regarding this monitoring report form to your permit writer. Your permit writer's name and telephone number can be found on the cover letter of your permit. Questions about the electronic submission of this report may be referred to the Office of Permit Management at (609)984-4428.



State of New Jersey
Department of Environmental Protection

Surface Water Discharge Monitoring Report

PI: 46814

Shell Generation Date: 10/1/2017

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - 485A SW Outfall 485A - 12/01/2017 - 12/31/2017

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	477	492	MGD					0	1 Day	CALCTD
	Permit Requirement	REPORT 01MOAV	REPORT 01DAMX							1/Day	CALCTD
	QL										
pH 00400 1 Effluent Gross Value	Sample Measurement				7.5		7.8	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				7.6		8.2	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
	QL				50						
Chlorine Produced Oxidants *CPOX 1 Effluent Gross Value	Sample Measurement			CODE=N Not Req 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, °C 00010 1 Effluent Gross Value	Sample Measurement				15.1		20.2	DEG.C	0	1 Day	CONTIN
	Permit Requirement				REPORT 01MOAV		REPORT 01DAMX			1/Day	CONTIN
	QL										
Lab Certification # 99999 99 Lab	Sample Measurement	06003	PA051		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: 10/1/2017

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - 486A SW Outfall 486A - 12/01/2017 - 12/31/2017

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: 12/01/2017 To 12/31/2017
Monitored Location: 486A SW Outfall 486A
Monitored Location Group:
Region / County: Southern / Salem

Check if Applicable: ☐ No Discharge This Monitoring Period

Monitoring Report Comments:

Please refer all permit related questions regarding this monitoring report form to your permit writer. Your permit writer's name and telephone number can be found on the cover letter of your permit. Questions about the electronic submission of this report may be referred to the Office of Permit Management at (609)984-4428.



State of New Jersey
Department of Environmental Protection

Surface Water Discharge Monitoring Report

PI: 46814

Shell Generation Date: 10/1/2017

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - 486A SW Outfall 486A - 12/01/2017 - 12/31/2017

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	69.6	80.4	MGD	*****	*****	*****	*****	0	1 Day	CALCTD
	Permit Requirement	REPORT 01MOAV	REPORT 01DAMX		*****	*****	*****				
	QL	*****	*****		*****	*****	*****				
Flow, In Conduit or Thru Treatment Plant 50050 1 Effluent Gross Value	Sample Measurement	461	488	MGD	*****	*****	*****	*****	0	1 Day	CALCTD
	Permit Requirement	REPORT 01MOAV	REPORT 01DAMX		*****	*****	*****				
	QL	*****	*****		*****	*****	*****				
pH 00400 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	7.5	*****	7.7	SU	0	1 Week	GRAB
	Permit Requirement	*****	*****		6.0 01DAMN	*****	9.0 01DAMX				
	QL	*****	*****		*****	*****	*****				
pH 00400 7 Intake From Stream	Sample Measurement	*****	*****	*****	7.6	*****	8.2	SU	0	1 Week	GRAB
	Permit Requirement	*****	*****		REPORT 01DAMN	*****	REPORT 01DAMX				
	QL	*****	*****		*****	*****	*****				
Chlorine Produced Oxidants *CPOX 1 Effluent Gross Value 1	Sample Measurement	*****	*****	*****	CODE=N Not ReqE=N Not Required			*****	0	3 Week	GRAB
	Permit Requirement	*****	*****		*****	0.3 01MOAV	0.5 01DAMX				
	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				
	QL	*****	*****		*****	*****	*****				
Temperature, oC 00010 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	15.9	19.9	DEG.C	0	1 Day	CONTIN
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	REPORT 01DAMX				
	QL	*****	*****		*****	*****	*****				
Lab Certification # 99999 99 Lab	Sample Measurement	06003	PA051	*****	17327			*****	0	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: 10/1/2017

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - 487B SW Outfall 487B - 12/01/2017 - 12/31/2017

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: 12/01/2017 To 12/31/2017
Monitored Location: 487B SW Outfall 487B
Monitored Location Group:
Region / County: Southern / Salem

Check if Applicable: ☒ No Discharge This Monitoring Period

Monitoring Report Comments:

Please refer all permit related questions regarding this monitoring report form to your permit writer. Your permit writer's name and telephone number can be found on the cover letter of your permit. Questions about the electronic submission of this report may be referred to the Office of Permit Management at (609)984-4428.



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

PI: 46814

Shell Generation Date: 10/1/2017

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - 489A SW Outfall 489A - 12/01/2017 - 12/31/2017

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: 12/01/2017 To 12/31/2017
Monitored Location: 489A SW Outfall 489A
Monitored Location Group:
Region / County: Southern / Salem

Check if Applicable: ☐ No Discharge This Monitoring Period

Monitoring Report Comments:

Flow in conduit or thru treatment plant, Effluent Gross value for outfall 489A has been estimated due to failure of pump run time meter. The estimate is based on previous pump run times and associated rain fall amounts for previous monitoring periods

Please refer all permit related questions regarding this monitoring report form to your permit writer. Your permit writer's name and telephone number can be found on the cover letter of your permit. Questions about the electronic submission of this report may be referred to the Office of Permit Management at (609)984-4428.



State of New Jersey
Department of Environmental Protection

Surface Water Discharge Monitoring Report

PI: 46814

Shell Generation Date: 10/1/2017

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - 489A SW Outfall 489A - 12/01/2017 - 12/31/2017

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	0.0101	0.0101	MGD	****	****	****	****	0	1 Month	CALCTD
	Permit Requirement	REPORT 01MOAV	REPORT 01DAMX		****	****	****			1/Month	CALCTD
	QL	*****	*****		*****	*****	*****				
pH 00400 1 Effluent Gross Value	Sample Measurement	****	****	****	7.1	****	7.1	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	****	****	****	3	3	****	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	****	****	****	****	<5	<5	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	****	****	****	****	3	3	MG/L	0	1 Month	GRAB
	Permit Requirement	****	****		****	REPORT 01MOAV	50 01DAMX			1/Month	GRAB
	QL	*****	*****		*****	*****	*****				
Lab Certification # 99999 99 Lab	Sample Measurement	06003	PA051		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 Waste Characterization Report

Pl: 46814

Shell Generation Date: 7/1/2017

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - 048C SW Outfall 48C - 08/01/2017 - 01/31/2018

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: 08/01/2017 To 01/31/2018
Monitored Location: 048C SW Outfall 48C
Monitored Location Group: N/A
Region / County: Southern / Salem

Check if Applicable: ☐ No Discharge This Monitoring Period

Monitoring Report Comments:

2 sets of samples were taken for volatile organics during the monitoring period. The first set, taken on 12/6/2017 and the second set on 12/21/2017. Results from the two sets have been averaged together, and reported on the WCR form.

Please refer all permit related questions regarding this monitoring report form to your permit writer. Your permit writer's name and telephone number can be found on the cover letter of your permit. Questions about the electronic submission of this report may be referred to the Office of Permit Management at (609)984-4428.



State of New Jersey

PI: 46814

Shell Generation Date:

7/1/2017

Department of Environmental Protection

Surface Water Discharge Waste Characterization Report

PSEG NUCLEAR LLC SALEM GENERATING STATION - NJ0005622 - 048C SW Outfall 48C - 08/01/2017 - 01/31/2018

Sample Date: (mm/dd/yyyy) 12/06/2017

Waste Characterization Data:				
Parameter	Reported Value	Units	Remark Code	Sample Type
Sulfate, Total (as SO ₄) 00945 1 Effluent Gross Value	2550000	UG/L	S Laboratory test	GRAB
Boron, Total (as B) 01022 1 Effluent Gross Value	<5000	UG/L	analyzed for but not dete	GRAB
Dichlorobromomethane 32101 1 Effluent Gross Value	83	UG/L	an of 2 or more determin	GRAB
Bromoform 32104 1 Effluent Gross Value	18	UG/L	an of 2 or more determin	GRAB
Chloroform 32106 1 Effluent Gross Value	246	UG/L	an of 2 or more determin	GRAB
Acrylonitrile 34215 1 Effluent Gross Value	<4	UG/L	an of 2 or more determin	GRAB
Chlorodibromomethane 34306 1 Effluent Gross Value	40	UG/L	an of 2 or more determin	GRAB
Lab Certification # 99999 99 Lab	06003			NOT AP
Lab Certification # 99999 99 Lab	PA051			NOT AP
Lab Certification # 99999 99 Lab	17327			NOT AP
Lab Certification # 99999 99 Lab				NOT AP
Lab Certification # 99999 99 Lab				NOT AP