

JAN 24 2017

HCH-2017-006

Department of Environmental Protection
Office of Permit Management
Division of Water Quality
PO Box 420
Trenton, N.J. 08625-0420

**NEW JERSEY POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT
HOPE CREEK GENERATING STATION
NJPDES PERMIT NJ0025411**

Dear Sir or Madam:

Attached is the Discharge Monitoring Report for the Hope Creek Generating Station for the month of December 2016.

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 Geoffrey Zeiger at (856) 339-2080.

The Discharge Monitoring Report for Hope Creek Generating Station is now submitted and certified electronically to the NJDEP. This document contains a copy of the Monitoring Report Submittal Forms.

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NRR*

JAN 24 2017

HCH-2017-006
NJPDES DMR

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Attachments

C Executive Director, DRBC
 USNRC - Docket number 50-354

Attachments

C Executive Director, DRBC
 USNRC - Docket number 50-354
 Site Vice President – Hope Creek, H-07
 Director – Regulatory Affairs, N-21
 Corporate Environmental Counsel, T-17
 A. Kraus, N-21
 H. L. Gregory, H-18
 G. Zeiger, H-15
 Env. File 2.1.6 (HC)

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 indicated on the respective transmittal sheet with explanations below.

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 Monitoring Report Form Reference Manual and specific guidance from DEP personnel.

HCH-2017-006
NJPDES DMR

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EXPLANATION OF EXCEEDANCES

December 2016

The following exceedances are included in the attached report and explained below.

DSN No.

EXPLANATION

No Exceedances



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

PI: 46815

Shell Generation Date: 10/1/2016

HOPE CREEK GENERATING STATION - NJ0025411 - 461A DSN 461A - DSW - 12/01/2016 - 12/31/2016

Permittee:

PSEG NUCLEAR LLC
PO BOX 236

HANCOCKS BRIDGE, NJ 08038

Location of Activity:

HOPE CREEK GENERATING STATION
ARTIFICIAL ISLAND
FOOT OF BUTTONWOOD RD
LOWER ALLOWAYS CREEK, NJ 08038

Report Recipient:

PSE&G Nuclear LLC - MC - N21
Alison Kraus
P.O. BOX 236
HANCOCKS BRIDGE, NJ 08038

NJPDES Permit Number: NJ0025411
Monitoring Period: 12/01/2016 To 12/31/2016
Monitored Location: 461A DSN 461A - DSW
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: 46815

Shell Generation Date: 10/1/2016

HOPE CREEK GENERATING STATION - NJ0025411 - 461A DSN 461A - DSW - 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	38.361	40.499	MGD	*****	*****	*****	*****	0	Continuous	METER
	Permit Requirement	REPORT 01MOAV	REPORT 01DAMX		*****	*****	*****		Continuous	METER	
	QL	*****	*****		*****	*****	*****				
Flow, In Conduit or Thru Treatment Plant 50050 7 Intake From Stream	Sample Measurement	54.014	55.176	MGD	*****	*****	*****	*****	0	Continuous	METER
	Permit Requirement	REPORT 01MOAV	REPORT 01DAMX		*****	*****	*****		Continuous	METER	
	QL	*****	*****		*****	*****	*****				
pH 00400 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	8.5	*****	8.6	SU	0	1 Week	GRAB
	Permit Requirement	*****	*****		6.0 01DAMN	*****	9.0 01DAMX		1/Week	GRAB	
	QL	*****	*****		*****	*****	*****				
LC50 Statre 96hr Acu Mysid Bahia TAN3E 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	CODE=N Not Required			%EFFL	0	1 Year	COMPOS
	Permit Requirement	*****	*****		REPORT 01RPMN	*****	*****		1/Year	COMPOS	
	QL	*****	*****		*****	*****	*****				
IC25 Statre 7day Chr Mysid Bahia TBP3E 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	CODE=N Not Required			%EFFL	0	1 Year	COMPOS
	Permit Requirement	*****	*****		REPORT 01RPMN	*****	*****		1/Year	COMPOS	
	QL	*****	*****		*****	*****	*****				
Chlorine Produced Oxidants *CPOX 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	<0.1	<0.1	MG/L	0	3 Week	GRAB
	Permit Requirement	*****	*****		*****	0.2 01MOAV	0.5 01DAMX		3/Week	GRAB	
	RQL	*****	*****		*****	0.1	0.1				

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No Ex.	Frequency of Analysis	Sample Type
Temperature, °C 00010 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	20.9	27.3	DEG.C	0	Continuous	METER
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	36.2 01DAMX			Continuous	METER
	QL	*****	*****		*****	*****	*****				
Temperature, °C 00010 7 Intake From Stream	Sample Measurement	*****	*****	*****	*****	6.3	10.2	DEG.C	0	Continuous	METER
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	REPORT 01DAMX			Continuous	METER
	QL	*****	*****		*****	*****	*****				
Carbon, Tot Organic (TOC) 00680 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	4.6	4.6	MG/L	0	1 Month	GRAB
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	REPORT 01DAMX			1/Month	GRAB
	QL	*****	*****		*****	*****	*****				
Carbon, Tot Organic (TOC) 00680 2 Effluent Net Value	Sample Measurement	*****	*****	*****	*****	0.17	0.17	MG/L	0	1 Month	CALCTD
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	REPORT 01DAMX			1/Month	CALCTD
	QL	*****	*****		*****	*****	*****				
Carbon, Tot Organic (TOC) 00680 7 Intake From Stream	Sample Measurement	*****	*****	*****	*****	3.3	3.3	MG/L	0	1 Month	GRAB
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	REPORT 01DAMX			1/Month	GRAB
	QL	*****	*****		*****	*****	*****				
Sulfate, Total (as SO4) 00945 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	CODE=N Not Required E=N Not Required		UG/L	0	1 6 Months	COMP24
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	REPORT 01DAMX			1/6 Months	COMP24
	QL	*****	*****		*****	*****	*****				

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No Ex.	Frequency of Analysis	Sample Type
Boron, Total (as B) 01022 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	CODE=N Not Req	E=N Not Required	UG/L	0	1 6 Months	COMPOS
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	REPORT 01DAMX			1/6 Months	COMPOS
	QL	*****	*****		*****	*****	*****				
Heat (winter) (per Hr.) 81387 1 Effluent Gross Value	Sample Measurement	349	502	MBTU/HR	*****	*****	*****	*****	0	1 Day	CALCTD
	Permit Requirement	REPORT 01MOAV	662 01DAMX		*****	*****	*****			1/Day	CALCTD
	QL	*****	*****		*****	*****	*****				
Copper, Total Recoverable 01119 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	CODE=N Not Req	E=N Not Required	UG/L	0	1 6 Months	COMPOS
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	REPORT 01DAMX			1/6 Months	COMPOS
	RQL	*****	*****		*****	2	2				
Lab Certification # 99999 99 Lab	Sample Measurement	17451	06003		PA010	03036					
	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: 46815

Shell Generation Date: 10/1/2016

HOPE CREEK GENERATING STATION - NJ0025411 - 461C DSN 461C - DSW internal - 12/01/2016 - 12/31/2016

Permittee:

PSEG NUCLEAR LLC
PO BOX 236

HANCOCKS BRIDGE, NJ 08038

Location of Activity:

HOPE CREEK GENERATING STATION
ARTIFICIAL ISLAND
FOOT OF BUTTONWOOD RD
LOWER ALLOWAYS CREEK, NJ 08038

Report Recipient:

PSE&G Nuclear LLC - MC - N21
Alison Kraus
P.O. BOX 236
HANCOCKS BRIDGE, NJ 08038

NJPDES Permit Number: NJ0025411
Monitoring Period: 12/01/2016 To 12/31/2016
Monitored Location: 461C DSN 461C - DSW internal
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: 46815

Shell Generation Date: 10/1/2016

HOPE CREEK GENERATING STATION - NJ0025411 - 461C DSN 461C - DSW internal - 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	0.046	0.080	MGD	*****	*****	*****	*****	0	Continuous	METER
	Permit Requirement	REPORT 01MOAV	REPORT 01DAMX		*****	*****	*****			Continuous	METER
	QL	*****	*****		*****	*****	*****				
Solids, Total Suspended 00530 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	<4	<4	MG/L	0	1 Month	COMPOS
	Permit Requirement	*****	*****		*****	30 01MOAV	100 01DAMX			1/Month	COMPOS
	QL	*****	*****		*****	*****	*****				
Petrol Hydrocarbons, Total Recoverable 45501 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	*****	*****	*****	*****	4	4	MG/L	0	1 Month	COMPOS
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	50 01DAMX			1/Month	COMPOS
	QL	*****	*****		*****	*****	*****				
Lab Certification # 99999 99 Lab	Sample Measurement	17451	06003		PA010	03036					
	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: 46815

Shell Generation Date: 10/1/2016

HOPE CREEK GENERATING STATION - NJ0025411 - 462B DSN 462B - DSW Internal - 12/01/2016 - 12/31/2016

Permittee:

PSEG NUCLEAR LLC
PO BOX 236

HANCOCKS BRIDGE, NJ 08038

Location of Activity:

HOPE CREEK GENERATING STATION
ARTIFICIAL ISLAND
FOOT OF BUTTONWOOD RD
LOWER ALLOWAYS CREEK, NJ 08038

Report Recipient:

PSE&G Nuclear LLC - MC - N21
Alison Kraus
P.O. BOX 236
HANCOCKS BRIDGE, NJ 08038

NJPDES Permit Number: NJ0025411
Monitoring Period: 12/01/2016 To 12/31/2016
Monitored Location: 462B DSN 462B - DSW Internal
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: 46815

Shell Generation Date: 10/1/2016

HOPE CREEK GENERATING STATION - NJ0025411 - 462B DSN 462B - DSW Internal - 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	0.019	0.058	MGD	*****	*****	*****	*****	0	Continuous	METER
	Permit Requirement	REPORT 01MOAV	REPORT 01DAMX		*****	*****	*****			Continuous	METER
	QL	*****	*****		*****	*****	*****				
BOD, 5-Day (20 oC) 00310 G Raw Sew/influent	Sample Measurement	*****	*****	*****	*****	101	101	MG/L	0	1 Month	COMPOS
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	REPORT 01DAMX			1/Month	COMPOS
	QL	*****	*****		*****	*****	*****				
BOD, 5-Day (20 oC) 00310 1 Effluent Gross Value	Sample Measurement	1	1	KG/DAY	*****	6	6	MG/L	0	1 Month	COMPOS
	Permit Requirement	8	REPORT 01WKAV		*****	30 01MOAV	45 01WKAV			1/Month	COMPOS
	QL	*****	*****		*****	*****	*****				
BOD, 5-Day (20 oC) 00310 K Percent Removal	Sample Measurement	*****	*****	*****	94.0	*****	*****	PERCENT	0	1 Month	CALCTD
	Permit Requirement	*****	*****		87.5	*****	*****			1/Month	CALCTD
	QL	*****	*****		01MOAVMN	*****	*****				
Solids, Total Suspended 00530 G Raw Sew/influent	Sample Measurement	*****	*****	*****	*****	122	122	MG/L	0	1 Month	COMPOS
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	REPORT 01DAMX			1/Month	COMPOS
	QL	*****	*****		*****	*****	*****				
Solids, Total Suspended 00530 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	8	8	MG/L	0	1 Month	COMPOS
	Permit Requirement	*****	*****		*****	30 01MOAV	45 01WKAV			1/Month	COMPOS
	QL	*****	*****		*****	*****	*****				

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No Ex.	Frequency of Analysis	Sample Type
Solids, Total Suspended 00530 K Percent Removal	Sample Measurement	*****	*****	*****	93	93	*****	PERCENT	0	1 Month	CALCTD
	Permit Requirement	*****	*****		85 01MOAVMN	REPORT 01MOAV	*****			1/Month	CALCTD
	QL	*****	*****		*****	*****	*****				
Oil and Grease 00556 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	<2	<2	MG/L	0	1 Month	GRAB
	Permit Requirement	*****	*****		*****	10 01MOAV	15 01DAMX			1/Month	GRAB
	QL	*****	*****		*****	*****	*****				
Nitrogen, Ammonia Total (as N) 00610 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	14	14	MG/L	0	1 Month	COMPOS
	Permit Requirement	*****	*****		*****	35 01MOAV	REPORT 01DAMX			1/Month	COMPOS
	QL	*****	*****		*****	*****	*****				
Enterococci 61211 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	5	5	#/100ML	0	1 Month	GRAB
	Permit Requirement	*****	*****		*****	REPORT 01MOGE	REPORT 01WKGE			1/Month	GRAB
	QL	*****	*****		*****	*****	*****				
Coliform, Fecal General 74055 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	<10	<10	#/100ML	0	1 Month	GRAB
	Permit Requirement	*****	*****		*****	200 01MOGE	400 01WKGE			1/Month	GRAB
	QL	*****	*****		*****	*****	*****				
Lab Certification # 99999 99 Lab	Sample Measurement	17451	06003	*****	PA010			*****			
	Permit Requirement	REPORT Lab #	REPORT Lab #		REPORT Lab #	REPORT Lab #	REPORT Lab #			Not Applic	NOT AP
	QL	*****	*****		*****	*****	*****				