

FEB 24 2017

HCH-2017-010

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 January 2017.

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

FEB 24 2017

HCH-2017-010  
NJPDES DMR

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Attachments

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

EXPLANATION OF CONDITIONS

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**January 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 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 2013 revision of the NJDEP Monitoring Report Form Reference Manual, the 2016 revision to the NJPDES Reference Manual for Online Form Submittal and specific guidance from DEP personnel.

Sampling frequency was increased for Cooling Tower Blowdown Total Residual Chlorine on 1/6/17 to obtain additional operating information.

EXPLANATION OF EXCEEDANCES

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January 2017

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: 1/1/2017

**HOPE CREEK GENERATING STATION - NJ0025411 - 461A DSN 461A - DSW - 01/01/2017 - 01/31/2017**

**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:** 01/01/2017 To 01/31/2017  
**Monitored Location:** 461A DSN 461A - DSW  
**Monitored Location Group:**  
**Region / County:** Southern / Salem

**Check if Applicable:**  No Discharge This Monitoring Period

**Monitoring Report Comments:**

For Chlorine Produced Oxidants, TRC, on pg. 1 of 3, sampling frequency was increased on 1/6/17 to obtain additional operating information following a dechlorination pump failure. All values observed were <0.01 mg/l TRC.



State of New Jersey  
Department of Environmental Protection

PI: 46815

Shell Generation Date: 1/1/2017

Surface Water Discharge Monitoring Report

HOPE CREEK GENERATING STATION - NJ0025411 - 461A DSN 461A - DSW - 01/01/2017 - 01/31/2017

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	38.955	41.462	MGD	*****	*****	*****	*****	0	Continuous	METER
	Permit Requirement	REPORT 01MOAV	REPORT 01DAMX		*****	*****	*****				
	QL	*****	*****		*****	*****	*****				
Flow, In Conduit or Thru Treatment Plant 50050 7 Intake From Stream	Sample Measurement	54.528	56.235	MGD	*****	*****	*****	*****	0	Continuous	METER
	Permit Requirement	REPORT 01MOAV	REPORT 01DAMX		*****	*****	*****				
	QL	*****	*****		*****	*****	*****				
pH 00400 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	8.5	*****	8.6	SU	0	1 Week	GRAB
	Permit Requirement	*****	*****		6.0	*****	9.0				
	QL	*****	*****		01DAMN	*****	01DAMX				
LC50 Statre 96hr Acu Mysid Bahía TAN3E 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	CODE=N Not Required			%EFFL	0	1 Year	COMPOS
	Permit Requirement	*****	*****		REPORT 01RPMN	*****	*****				
	QL	*****	*****		*****	*****	*****				
IC25 Statre 7day Chr Mysid Bahía TBP3E 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	CODE=N Not Required			%EFFL	0	1 Year	COMPOS
	Permit Requirement	*****	*****		REPORT 01RPMN	*****	*****				
	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	0.5				
	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	28.5	DEG.C	0	Continuous	METER
	Permit Requirement	*****	*****	*****	*****	REPORT 01MOAV	36.2 01DAMX			Continuous	METER
	QL	*****	*****		*****	*****	*****				
Temperature, °C 00010 7 Intake From Stream	Sample Measurement	*****	*****		*****	4.4	5.3	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	*****	*****		*****	2.15	2.15	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	*****	*****		*****	0.07	0.07	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	*****	*****		*****	1.5	1.5	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 Req E=N Not Required		UG/L	0	1 6 Months	COMP24
	Permit Requirement	*****	*****	*****	*****	REPORT 01MOAV	REPORT 01DAMX			1/6 Months	COMP24
	QL	*****	*****		*****	*****	*****				







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

PI: 46815

Shell Generation Date: 1/1/2017

**HOPE CREEK GENERATING STATION - NJ0025411 - 461C DSN 461C - DSW internal - 01/01/2017 - 01/31/2017**

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**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:** 01/01/2017 To 01/31/2017  
**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:**





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

PI: 46815

Shell Generation Date: 1/1/2017

HOPE CREEK GENERATING STATION - NJ0025411 - 462B DSN 462B - DSW Internal - 01/01/2017 - 01/31/2017

**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:**

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P.O. BOX 236  
HANCOCKS BRIDGE, NJ 08038

**NJPDES Permit Number:** NJ0025411  
**Monitoring Period:** 01/01/2017 To 01/31/2017  
**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:**



State of New Jersey  
Department of Environmental Protection

PI: 46815

Shell Generation Date: 1/1/2017

Surface Water Discharge Monitoring Report

HOPE CREEK GENERATING STATION - NJ0025411 - 462B DSN 462B - DSW Internal - 01/01/2017 - 01/31/2017

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	0.019	0.032	MGD	*****	*****	*****	*****	0	Continuous	METER	
	Permit Requirement	REPORT 01MOAV	REPORT 01DAMX		*****	*****	*****					
	QL	*****	*****		*****	*****	*****					
BOD, 5-Day (20 oC) 00310 G Raw Sew/Influent	Sample Measurement	*****	*****	*****	*****	178	178	MG/L	0	1 Month	COMPOS	
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	REPORT 01DAMX					
	QL	*****	*****		*****	*****	*****					
BOD, 5-Day (20 oC) 00310 1 Effluent Gross Value	Sample Measurement	<1	<1	KG/DAY	*****	5	5	MG/L	0	1 Month	COMPOS	
	Permit Requirement	8	REPORT 01WKAV		*****	30	45					
	QL	*****	*****		*****	*****	*****					
BOD, 5-Day (20 oC) 00310 K Percent Removal	Sample Measurement	*****	*****	*****	*****	97.2	*****	PERCENT	0	1 Month	CALCTD	
	Permit Requirement	*****	*****		*****	87.6	*****					
	QL	*****	*****		*****	*****	*****					
Solids, Total Suspended 00530 G Raw Sew/Influent	Sample Measurement	*****	*****	*****	*****	200	200	MG/L	0	1 Month	COMPOS	
	Permit Requirement	*****	*****		*****	*****	REPORT 01MOAV					REPORT 01DAMX
	QL	*****	*****		*****	*****	*****					
Solids, Total Suspended 00530 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	4	4	MG/L	0	1 Month	COMPOS	
	Permit Requirement	*****	*****		*****	*****	30					45
	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	*****	*****	*****	98	98	*****	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	*****	*****	*****	*****	4	4	MG/L	0	1 Month	COMPOS
	Permit Requirement	*****	*****	*****	*****	35 01MOAV	REPORT 01DAMX			1/Month	COMPOS
	QL	*****	*****	*****	*****	*****	*****				
Enterococci 61211 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	3	3	#/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	*****	*****	*****	*****	*****	*****				