



HCH-2016-042

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 October 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.

IE25
NRR

HCH-2016-042
NJPDES DMR

2

Attachments

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

EXPLANATION OF CONDITIONS

October 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-2016-042
NJPDES DMR

4

EXPLANATION OF EXCEEDANCES

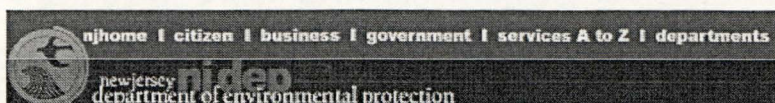
October 2016

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

DSN No.

EXPLANATION

No Exceedances



njdep home | about dep | index by topic | programs/units | dep online

NJPDES Monitoring Report Forms

 PSEGHCUPCW
Version 5.11

ID: NJ0025411

Facility Name: HOPE CREEK GENERATING STATION

[Help](#) | [My Workspace](#) | [Logout](#)

Identification

Guidance Documents

NJPDES

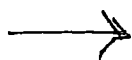
MRF Tools

Monitoring Report Form Submitted Folder

The following is a list of electronically submitted Monitoring Report Forms at this facility. In order for an Uploaded spreadsheet to be received by DEP, it must be fully certified. To certify an Uploaded spreadsheet, please select the Certify button below or the Certification menu option to the left.

 Filter by Report Type:

Permit #	Report Type	Monitored Location	Monitoring Status Period	Date	Due Date	Resubmittal
NJ0025411	Consolidated	462B DSN	07/01/2016	Submitted	09/22/2016	01/26/2017
	WCR - Semi	462B -	-	via Paper		
	Annual	DSW	12/31/2016			
		Internal		Submitted 09/22/2016	01/26/2017	<input checked="" type="checkbox"/>
				via Paper		
				Submitted 09/22/2016	01/26/2017	<input checked="" type="checkbox"/>
				via Paper		
NJ0025411	Surface	461A DSN	08/01/2016	Submitted	09/22/2016	09/26/2016
	Water DMR	461A -	-	via Paper		
		DSW	08/31/2016			
				Submitted 09/22/2016	09/26/2016	<input checked="" type="checkbox"/>
				via Paper		
				Submitted 09/22/2016	09/26/2016	<input checked="" type="checkbox"/>
				via Paper		
NJ0025411	Surface	461A DSN	09/01/2016	Submitted	10/25/2016	10/26/2016
	Water DMR	461A -	-	via Paper		
		DSW	09/30/2016			
				Submitted 10/25/2016	10/26/2016	<input checked="" type="checkbox"/>
				via Paper		
NJ0025411	Surface	461A DSN	10/01/2016	Post-	11/22/2016	11/26/2016
	Water DMR	461A -	-	Marked		
		DSW	10/31/2016			
NJ0025411	Surface	461C DSN	08/01/2016	Submitted	09/22/2016	09/26/2016
	Water DMR	461C -	-	via Paper		
		DSW	08/31/2016			
		internal		Submitted 09/22/2016	09/26/2016	<input checked="" type="checkbox"/>
				via Paper		
				Submitted 09/22/2016	09/26/2016	<input checked="" type="checkbox"/>
				via Paper		
NJ0025411	Surface	461C DSN	09/01/2016	Submitted	10/25/2016	10/26/2016
	Water DMR	461C -	-	via Paper		
		DSW	09/30/2016			
		internal				
					10/25/2016	10/26/2016 <input checked="" type="checkbox"/>



					Submitted via Paper		
NJ0025411	Surface	461C DSN	10/01/2016	Post-	11/22/2016	11/26/2016	
	Water DMR	461C - DSW internal	- 10/31/2016	Marked			
NJ0025411	Surface	462B DSN	08/01/2016	Submitted	09/22/2016	09/26/2016	
	Water DMR	462B - DSW Internal	- 08/31/2016	via Paper			
					Submitted 09/22/2016	09/26/2016	<input checked="" type="checkbox"/>
					via Paper		
					Submitted 09/22/2016	09/26/2016	<input checked="" type="checkbox"/>
					via Paper		
NJ0025411	Surface	462B DSN	09/01/2016	Submitted	10/25/2016	10/26/2016	
	Water DMR	462B - DSW Internal	- 09/30/2016	via Paper			
					Submitted 10/25/2016	10/26/2016	<input checked="" type="checkbox"/>
					via Paper		
NJ0025411	Surface	462B DSN	10/01/2016	Post-	11/22/2016	11/26/2016	
	Water DMR	462B - DSW Internal	- 10/31/2016	Marked			



[contact dep](#) | [privacy notice](#) | [legal statement](#) | [accessibility statement](#) 

department: [nidep home](#) | [about dep](#) | [index by topic](#) | [programs/units](#) | [dep online](#)
 statewide: [nihome](#) | [citizen](#) | [business](#) | [government](#) | [services A to Z](#) | [departments](#) | [search](#)

Copyright © State of New Jersey, 1996-2004
 Department of Environmental Protection
 P. O. Box 402
 Trenton, NJ 08625-0402

Last Updated: June 24, 2004



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

PI: 46815

Shell Generation Date: 10/1/2016

WHO MUST SIGN The highest ranking official having day-to-day managerial and operational responsibilities for the discharging facility shall sign the certification or, in his absence a person designated by that person. For a local agency, the highest ranking operator of the treatment works shall sign the certification. Where the highest ranking operator does not have the ability to authorize capital expenditures and hire personnel, a person having that responsibility or person designated by that person shall also sign the second certification at the bottom of this page. If the local agency has contracted with another entity to operate the treatment works, the highest-ranking official of the contracted entity shall sign the certification.

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 information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and/or imprisonment, pursuant to N.J.A.C. 7:14A-6.9(B). The New Jersey Water Pollution Control Act provides for penalties up to \$50,000 per violation.

Name and Title of Principal Executive Officer, Authorized Agent, or *Licensed Operator

Grade and Registry Number (if applicable)

Signature of Principal Executive Officer, Authorized Agent, or *Licensed Operator

Date (Month/Day/Year)

Area Code/Telephone Number

**For a local agency where the highest ranking operator does not have the ability to authorize capital expenditures and hire personnel, a person having that responsibility or person designated by that person shall sign the following certification:*

I certify under penalty of law and in accordance with N.J.S.A. 58:10A-6f(5) that I have received and reviewed the attached discharge monitoring reports.

Name and Title

Signature

Date (Month/Day/Year)

Area Code/Telephone Number



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 - 10/01/2016 - 10/31/2016

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: 10/01/2016 To 10/31/2016
Monitored Location: 461A DSN 461A - DSW
Monitored Location Group:
Region / County: Southern / Salem

Check if Applicable: ☐ No Discharge This Monitoring Period

Monitoring Report Comments:

--



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 - 10/01/2016 - 10/31/2016

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	40.637	56.708	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	47.225	61.543	MGD	*****	*****	*****	*****	0	Continuous	METER
	Permit Requirement	REPORT 01MOAV	REPORT 01DAMX		*****	*****	*****			Continuous	METER
	QL	*****	*****		*****	*****	*****				
pH 00400 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	7.6	*****	8.5	SU	0	1 Week	GRAB
	Permit Requirement	*****	*****		6.0	*****	9.0			1/Week	GRAB
	QL	*****	*****		01DAMN	*****	01DAMX				
					*****	*****	*****				
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	0.5			3/Week	GRAB
	RQL	*****	*****		*****	01MOAV	01DAMX				
					*****	0.1	0.1				

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No Ex.	Frequency of Analysis	Sample Type
Temperature, oC 00010 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	23.9	30.0	DEG.C	0	Continuous	METER
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	36.2 01DAMX			Continuous	METER
	QL	*****	*****		*****	*****	*****				
Temperature, oC 00010 7 Intake From Stream	Sample Measurement	*****	*****	*****	*****	19.2	22.2	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	*****	*****	*****	*****	3.25	3.25	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	*****	*****	*****	*****	1.03	1.03	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	*****	*****	*****	*****	1.57	1.57	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	*****	*****		*****	*****	*****				

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	113	217	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	PA011		03036					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: 46815

Shell Generation Date: 10/1/2016

HOPE CREEK GENERATING STATION - NJ0025411 - 461C DSN 461C - DSW internal - 10/01/2016 - 10/31/2016

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: 10/01/2016 To 10/31/2016
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:

--



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 - 10/01/2016 - 10/31/2016

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	0.036	0.150	MGD	*****	*****	*****	*****	0	Continuous	METER
	Permit Requirement	REPORT 01MOAV	REPORT 01DAMX		*****	*****	*****			Continuous	METER
	QL	*****	*****		*****	*****	*****				
Solids, Total Suspended 00530 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	3	3	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	*****	*****	*****	*****	5	5	MG/L	0	1 Month	COMPOS
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	50 01DAMX			1/Month	COMPOS
	QL	*****	*****		*****	*****	*****				
Lab Certification # 99999 99 Lab	Sample Measurement	17451	PA011		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 - 10/01/2016 - 10/31/2016

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: 10/01/2016 To 10/31/2016
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:

--



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 - 10/01/2016 - 10/31/2016

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	0.025	0.045	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	*****	*****	*****	*****	338	338	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	*****	<2	<2	MG/L	0	1 Month	COMPOS
	Permit Requirement	8 01MOAV	REPORT 01WKAV		*****	30 01MOAV	45 01WKAV			1/Month	COMPOS
	QL	*****	*****		*****	*****	*****				
BOD, 5-Day (20 oC) 00310 K Percent Removal	Sample Measurement	*****	*****	*****	>99.4	*****	*****	PERCENT	0	1 Month	CALCTD
	Permit Requirement	*****	*****		87.5 01MOAVMN	*****	*****			1/Month	CALCTD
	QL	*****	*****		*****	*****	*****				
Solids, Total Suspended 00530 G Raw Sew/Influent	Sample Measurement	*****	*****	*****	*****	373	373	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	*****	*****	*****	*****	15	15	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	*****	*****	*****	96	96	*****	PERCENT	0	1 Month	CALCTD
	Permit Requirement	*****	*****		85	REPORT	*****			1/Month	CALCTD
	QL	*****	*****		01MOAVMN	01MOAV	*****				
Oil and Grease 00556 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	<1	<1	MG/L	0	1 Month	GRAB
	Permit Requirement	*****	*****		*****	10	15			1/Month	GRAB
	QL	*****	*****		*****	01MOAV	01DAMX				
Nitrogen, Ammonia Total (as N) 00610 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	3	3	MG/L	0	1 Month	COMPOS
	Permit Requirement	*****	*****		*****	35	REPORT			1/Month	COMPOS
	QL	*****	*****		*****	01MOAV	01DAMX				
Enterococci 61211 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	<4	<4	#/100ML	0	1 Month	GRAB
	Permit Requirement	*****	*****		*****	REPORT	REPORT			1/Month	GRAB
	QL	*****	*****		*****	01MOGE	01WKGE				
Coliform, Fecal General 74055 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	<4	<4	#/100ML	0	1 Month	GRAB
	Permit Requirement	*****	*****		*****	200	400			1/Month	GRAB
	QL	*****	*****		*****	01MOGE	01WKGE				
Lab Certification # 99999 99 Lab	Sample Measurement	17451	PA011		06005	06003					
	Permit Requirement	REPORT	REPORT		REPORT	REPORT	REPORT			Not Applic	NOT AP
	QL	*****	*****		*****	*****	*****				