SEP 24 2012

HCH-2012-058



CERTIFIED MAIL
RETURN RECEIPT REQUESTED
ARTICLE NUMBER: 7011 3500 0000 5084 5959

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:

Attached is the Discharge Monitoring Report for the Hope Creek Generating Station for the month of August 2012 and the Consolidated Waste Characterization Report for DSN-462B located at Hope Creek,

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 Christopher White at (856) 339-3301.

Sincerely,

John F. Perry

Site Vice President - Hope Creek

JERS

HCH-2012-058 NJPDES DMR

#### Attachments

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

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#### **EXPLANATION OF CONDITIONS**

#### August 2012

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.

Sampling frequency was increased for DSN-461A to support the DRBC nutrient monitoring study and to obtain additional operational data.

Attached is the Consolidated Waste Characterization Report for DSN-462B.

HCH-2012-058 NJPDES DMR

**EXPLANATION OF EXCEEDANCES** 

August 2012

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

DSN No.

**EXPLANATION** 

No Exceedances

COUNTY OF SALEM STATE OF NEW JERSEY

I, John F. Perry, of full age, being duly sworn according to law, upon my oath depose and say:

- 1. I am the Site Vice President-Hope Creek for PSEG Nuclear, and as such am authorized to sign Hope Creek'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.

John F. Perry

Site Vice President - Hope Creek

Sworn and subscribed before me

this 24th day of September, 2012.

Deloris D. Hadden
Notary Public of New Jersey
My Commission Expires 3/29/2015
ID # 2073649

#### Surface Water Discharge Monitoring Report Submittal Form

NJPDES PERMIT	MONITORING PERIOD	MONITO	RED LOCATION:
NJ0025411	Month         Day         Year           8         1         2012         To         8         31         2012         46	51A – DSN 461	A – DSW
PERMITTEE:	LOCATION OF ACTIVITY:	REPORT RE	CIPIENT:
SE&G NUCLEAR LLC	HOPE CREEK GENERATING STATION	PSE&G	
O BOX 236 – ALLOWAY CR		TRAVIS ZIGO	
IANCOCKS BRIDGE, NJ 080		PO BOX 236 / H	
	LOWER ALLOWAYS CREEK, NJ 08038	HANCOCKS BR	IDGE, NJ 08038
	REGION / COUNTY: Southern / Salem County		•
CHECK IF APPLICABLE		oort Comments Atta	ched
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responsibility or person design	atment works, the highest-ranking official of the contracted entity sha	of this page. If the	local agency has contracted with
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DATE

AREA CODE/PHONE NUMBER

SIGNATURE

NAME AND TITLE

MONITORED LOCATION:

MONITORING PERIOD:

FACILITY NAME:

NJ0025411

461A DSN 461A - DSW

8/1/2012 TO 8/31/2012

HOPE CREEK GENERATING STATION

1130025411	461A	DSN 461A - DS	) WV 8/	1/2012 1	0 8/31/2012	HOPE CREE	K GENERATIN	GSIAII	ION		
PARAMETER		QUANTITY (	OR LOADING	UNITS	QUALI	TY OR CONCENTE	RATION	UNITS	NO. EX.	FREQ. OF ANALYSIS	SAMPLE TYPE
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pH 00400 1 Effluent Gross Value	SAMPLE MEASUREMENT PERMIT REQUIREMENTS			*****	7.8 6.0 101DAMN	****** *******************************	8.8 \$1.9.0 \$1.01DAMX\$4.33	SU	0	/week	GRAB.II
LC50 Statre 96hr Acu Mysid Bahia TAN3E 1 Effluent Gross Value	SAMPLE MEASUREMENT PERMIT REQUIREMENT	*****	*****	*****	Code= ~ REPORT SOTREMN	*****		%EFFL	0	Code = N	Code=2
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Comments: If there are any questions regarding the monitoring report form, please contact Heather Genievich of the Bureau of Surface Water Permitting at (609) 292-4860.

\* Explonation of Conditions

MONITORED LOCATION:

MONITORING PERIOD:

FACILITY NAME:

NJ0025411

461A DSN 461A - DSW

8/1/2012 TO 8/31/2012

HOPE CREEK GENERATING STATION

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PARAMETER		QUANTITY (	OR LOADING	UNITS	QUALI	TY OR CONCENTE	ATION	UNITS	NO. EX.	FREQ. OF ANALYSIS	SAMPLE TYPE
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Temperature,	SAMPLE MEASUREMENT	*****	*****		*****	3D.3	31.5		0	Continuous	meter
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MONITORED LOCATION:

MONITORING PERIOD:

FACILITY NAME:

NJ0025411

461A DSN 461A - DSW

8/1/2012 TO 8/31/2012

HOPE CREEK GENERATING STATION

NJ0025411	461A	DSN 461A - DS	SVV 8	/1/2012	O 8/31/2012	HOPE CREE	K GENERALIN	G STATI	ON		
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81386 1 Effluent Gross Value	PERMIT REGUIREMENT	Propagated and agreement and the party of th	# 534 1. # 501DAMX 1.4	MBTU/HR		***************************************	447 141	*****		: 1/Day	CALGID
Copper,	SAMPLE										
Total Recoverable 01119 1	MEASUREMENT		*****		*****	니이 REPORT	HIO REPORT:	UG/L	0	6 Months	COMPOS
Effluent Gross Value	REQUIREMENT					4-01MOAV 2	OIDAMX				
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99999 99 Lab	PERMIT				the state of the s	REPORT	REPORTS			Not Applic	NOTAP
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# Surface Water Discharge Monitoring Report Submittal Form

NJPDES PERMIT	MONITORING PERIOD	MONITOR	ED LOCATION:
NJ0025411	Month   Day   Year   To   Month   Day   Year   46	61C - DSN 461C	2 - DSW internal
PERMITTEE: PSE&G NUCLEAR LLC PO BOX 236 – ALLOWAY CR HANCOCKS BRIDGE, NJ 0803		REPORT RECI PSE&G TRAVIS ZIGO PO BOX 236 / H15 HANCOCKS BRIDO	
	REGION / COUNTY: Southern / Salem County		
CHECK IF APPLICABLE	: No Discharge this Monitoring Period Monitoring Rep	oort Comments Attache	d
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DATE

AREA CODE/PHONE NUMBER

SIGNATURE

NAME AND TITLE

MONITORED LOCATION:

**MONITORING PERIOD:** 

FACILITY NAME:

NJ0025411

461C DSN 461C - DSW interna

8/1/2012 TO 8/31/2012

HOPE CREEK GENERATING STATION

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PARAMETER		QUANTITY (	OR LOADING	UNITS	QUALI	TY OR CONCENTE	RATION	UNITS	NO. EX.	FREQ. OF ANALYSIS	SAMPLE TYPE
Flow, In Conduit or Thru Treatment Plant 50050 1 Effluent Gross Value	SAMPLE MEASUREMENT PERMIT IN PERMIT IN REQUIREMENT	O.O22 REPORT	O-OSO REPORT 01DAMX	MGD	*****			****	0	Continuous Continuous	Mcter METER
Solids, Total Suspended	SAMPLE MEASUREMENT	****	***		****	22	ココ		0	1/month	Compos
00530 1 Effluent Gross Value	PERMIT PE			*****		30 01MOAV	100 Maria 101DAMX 318	MG/L		1/Month	PICOMPOS
Petrol Hydrocarbons, Total Recoverable	SAMPLE MEASUREMENT	****	***		****	<b>45</b>	45		٥	mouth	Grab
45501 1 Effluent Gross Value	PERMIT REQUIREMENT			*****		10 01MOAV	15 # 01DAMX	MG/L		2/Month	GRAB
Carbon, Tot Organic (TOC)	SAMPLE MEASUREMENT	****	****		****	7	7	,	0	mosth	Compos
00680 1 Effluent Gross Value	PERMIT AND REQUIREMENT QL			*****		the street of th	50 01DAMX	MG/L		:1/Month	*COMPOS
Lab Certification #	SAMPLE MEASUREMENT	PA166	06005		03036	PA010	17451				
99999 99 Lab	PERMIT REQUIREMENT	The state of the state of the state of the state of			REPORT L	REPORT	REPORT Lab#			Not Applic	NOT AP

#### **Surface Water Discharge Monitoring Report Submittal Form**

	M	IONITORING PERIOD	MONITORI	ED LOCATION:
NJ0025411	Month Day 8 1	Year         To         Month         Day         Year           2012         To         8         31         2012	62B - DSN 462B	- DSW Internal
<b>PERMITTEE:</b> PSE&G NUCLEAR LLC PO BOX 236 – ALLOWAY CRI HANCOCKS BRIDGE, NJ 0803	REPORT RECI PSE&G TRAVIS ZIGO PO BOX 236 / H15 HANCOCKS BRIDG			
	REGIO	N / COUNTY: Southern / Salem County		
CHECK IF APPLICABLE	No Dischar	ge this Monitoring Period Monitoring Re	port Comments Attache	d
another entity to operate the tre I certify under penalty of law th	atment works, the hat I have personally ose individuals imm	shall also sign the second certification at the botto highest-ranking official of the contracted entity sharp y examined and am familiar with the information and hediately responsible for obtaining the information	all sign the certification.  submitted in this docume	nt and all attachments, and
complete. I am aware that the		chalties for submitting false information, including Pollution Control Act provides for penalties up to		
complete. I am aware that ther to N.J.A.C. 7:14A-6.9(B). The John F. Peri	New Jersey water F	enalties for submitting false information, including Pollution Control Act provides for penalties up to Hent – Hope Creek		
complete. I am aware that thei to N.J.A.C. 7:14A-6.9(B). The  John F. Peri	New Jersey water F	enalties for submitting false information, including Pollution Control Act provides for penalties up to	\$50,000 per violation.	or imprisonment, pursuant
complete. I am aware that ther to N.J.A.C. 7:14A-6.9(B). The  John F. Perr NAME AND TITLE OF PRINCIPAL	New Jersey water F y, Site Vice Presid EXECUTIVE OFFICE	enalties for submitting false information, including Pollution Control Act provides for penalties up to Hent – Hope Creek	\$50,000 per violation.  GRADE AND REGIS	N/A TRY NUMBER (IF APPLICABLE)
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complete. I am aware that ther to N.J.A.C. 7:14A-6.9(B). The John F. Peri NAME AND TITLE OF PRINCIPAL SIGNATURE OF PRINCIPAL EXECT *For a local agency where the hig person designated by that person	New Jersey water Fry, Site Vice Preside EXECUTIVE OFFICER, AUTHEST-ranking operator shall sign the following	enalties for submitting false information, including Pollution Control Act provides for penalties up to Bent – Hope Creek  R, AUTHORIZED AGENT, OR *LICENSED OPERATOR  THORIZED AGENT, OR *LICENSED OPERATOR  Thorized agent, or *Licensed operator  Thorized agent, or *Licensed operator	GRADE AND REGIS  9-24-12  DATE  ures and hire personnel, a p	N/A  TRY NUMBER (IF APPLICABLE)  856-339-3463  AREA CODE/PHONE NUMBER  person having that responsibility of

MONITORED LOCATION:

MONITORING PERIOD:

FACILITY NAME:

NJ0025411

462B DSN 462B - DSW Interna

8/1/2012 TO 8/31/2012

HOPE CREEK GENERATING STATION

1430023411	4020	DSN 4020 - D3	Saa uireina o	11/2012 1	0 6/3 1/2012	HOFE CKEE	K GENERATIN	GSIAII	OIV		
PARAMETER		QUANTITY (	OR LOADING	UNITS	QUALI	TY OR CONCENTR	ATION	UNITS	NO. EX.	FREQ. OF ANALYSIS	SAMPLE TYPE
Flow, In Conduit or Thru Treatment Plant	SAMPLE MEASUREMENT	0.021	0.044		*****	****	*****		0	Continuous	meter
50050 1 Effluent Gross Value	PERMITERS REQUIREMENTS	REPORT 01MOAV	REPORT	MGD				*****		Continuous	METER
BOD, 5-Day (20 oC)	idl#ii										<b>种性型/27是特别</b>
200, 0 20, (20 00,	SAMPLE MEASUREMENT	*****	*****		****	315	315	į	0	month	compos
00310 G Raw Sew/influent	PERMITANTA REQUIREMENTA			*****		REPORT 01MOAV	REPORT 01DAMX	MG/L		41/Month	COMPOS
	# QU							<u> </u>			
BOD, 5-Day (20 oC)	SAMPLE MEASUREMENT	1	1		*****	8	8		0	month	Compos
00310 1 Effluent Gross Value	PERMIT REQUIREMENT	8 LO1MOAV	REPORT 01WKAV	KG/DAY		30 F 01M0AV#	01WKAV	MG/L		1/Month	COMPOS
	QL				Eligate in the same of the sam						
BOD, 5-Day (20 oC)	SAMPLE MEASUREMENT	*****	****		97.4	****	****		0	month	calctd
00310 K Percent Removal	PERMIT SE REQUIREMENT	Seminario Più Territo		*****	87.5 01MOAVMN			PERCENT		1/Month	CALCID
	olly (		1		THE STATE OF THE S						
Solids, Total Suspended	SAMPLE MEASUREMENT	****	*****		*****	370	370		O	month	Compos
00530 G Raw Sew/influent	E-VPERMIT! REQUIREMENT			*****		REPORTATION OF THE STATE OF THE	REPORT	MG/L		1/Month	COMPOS
	i al		Fajirinin jirin		1000		Treation in 12			100000000000000000000000000000000000000	registrate:
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	*****		*****	12	12		0	month	Compos
00530 1 Effluent Gross Value	PERMIT ALL REQUIREMENT			*****		01MOAV	01WKAV	MG/L		44/Month	GOMPOS
	QL 🎆	*****	* 1 (***** P)**		i film		1.000		3.		

MONITORED LOCATION:

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NJ0025411

462B DSN 462B - DSW Interna

8/1/2012 TO 8/31/2012

HOPE CREEK GENERATING STATION

1100025411	4020	D3N 402D - D	JAA IIIIGIIIG O	1112012 1	0 0/3 1/20 12	HOLF CIVE	IN OLNLINATIN	OUIAII	ON		
PARAMETER		QUANTITY (	OR LOADING	UNITS	QUALI	TY OR CONCENTE	RATION	UNITS	NO. EX.	FREQ. OF ANALYSIS	SAMPLE TYPE
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	****		97	97	*****		0	Mowth	caleta
00530 K Percent Removal	PERMIT REQUIREMENT			*****	85 01MOAVMN	REPORT 01MOAV		PERCENT		1/Month	CALCTD
Oil and Grease	QL										
00556 1 Effluent Gross Value	MEASUREMENT PERMIT REQUIREMENT			*****		25 10- 01MOAV	7 01DAMX	MG/L	0	month	GRAB
Nitrogen, Ammonia Total (as N) 00610 1	SAMPLE MEASUREMENT	*****	*****		*****	1ス 35	1Z		0	Month 1/Month	COMPOS
Effluent Gross Value	PERMIT/ REQUIREMENT			*****		01MOAV	III DAMX	MG/L		17 (16 ) 17 (16 )	
Enterococci	SAMPLE MEASUREMENT	*****	****		****	< 10	210		0	month	GRab
61211 1 Effluent Gross Value	PERMIT TO REQUIREMENTS			*****		A REPORT	REPORT 01WKGE	#/100ML		F1/Month	GRAB
Coliform, Fecal General	SAMPLE MEASUREMENT	非法补偿的法	***		****	< 10	210		0	month	GRab
74055 1 Effluent Gross Value	PERMIT REQUIREMENT		Timini da de la composição de la composi	*****		200 at 4 01MOGE 12	01WKGE	#/100ML		1/Month	# GRAB
Lab Certification #	SAMPLE MEASUREMENT	17451	PA166		06005				SETE WAS	Transference of State Lines	> heterographies and the control of
99999 99 Lab	A PERMIT AND REQUIREMENT	REPORTAGE LAB #	REPORT Lab#		REPORTS Lab#	#REPORTALE Lab.#	REPORTATION Lab#			Not Applic	NOTAP
	+ #QL	Arthur St.	A STATE OF S		*******		2 *****			and the	**************************************

## Consolidated Waste Characterization Report Submittal Form

NJPDES PERMIT		M	ONIT	<u>ORIN</u>	G PERI	OD		MONITORED LOCATION:
NJ0025411	Month	Day	Year	То	Month 12	Day	Year	462B - DSN 462B - DSW I
	/		2012	10	12	31	2012	<u> </u>

#### PERMITTEE:

PSE&G NUCLEAR LLC PO BOX 236 – ALLOWAY CREEK NE 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 TRAVIS ZIGO PO BOX 236 / H15 HANCOCKS BRIDGE, NJ 08038

REGION /	COUNTY:	Southern /	Salem	County
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CHECK IF APPLICABLE: No Discharge this Monitori	ng Period Monit	oring Report Comments Attached
WHO MUST SIGN The highest ranking official having discharging facility shall sign the certification or, in his abset the highest ranking operator of the treatment works shall sign have the ability to authorize capital expenditures and hire per by that person shall also sign the second certification at the lanother entity to operate the treatment works, the highest-ranking official having discharging the second certification at the lanother entity to operate the treatment works, the highest-ranking official having discharging the second certification at the lanother entity to operate the treatment works, the highest-ranking official having discharging the second certification or, in his abset to the highest ranking official having discharging the second certification or, in his abset to the highest ranking operator of the treatment works shall sign have the ability to authorize capital expenditures and hire per by that person shall also sign the second certification at the lanother entity to operate the treatment works, the highest-ranking operator of the treatment works and hire per by that person shall also sign the second certification at the lanother entity to operate the treatment works, the highest-ranking operator of the treatment works are treatment works.	ence a person designat in the certification. W rsonnel, a person havi pottom of this page. I	ed by that person. For a local agency, here the highest ranking operator does not ng that responsibility or person designated f the local agency has contracted with
I certify under penalty of law that I have personally examined document and all attachments, and that, based on my inquiry information, I believe that the information is true, accurate a submitting false information, including the possibility of an New Jersey water Pollution Control Act provides for penaltic	of those individuals nd complete. I am av d/or imprisonment, po	immediately responsible for obtaining the ware that there are significant penalties fo arsuant to N.J.A.C. 7:14A-6.9(B). The
		And the second second second second
John F. Perry, Site Vice President - Hope Creek		N/A
NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER, OR AUTHORIZED AGENT	GRADE AND REGIST	RY NUMBER (IF APPLICABLE)
John F. Pary	9-24-12	856-339-3463
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE(MONTH/DAY /YEAR)	AREA CODE/TELEPHONE NUMBER
*For a local agency where the highest-ranking operator does not a person having that responsibility or person designated by that p		
I certify under penalty of law and in accordance with N.J.S.A. 58:3 monitoring reports.	0A-6F(5) that I have re-	viewed the attached discharge
N/A		N/A
NAME AND TITLE	SIGNATURE	
N/A		N/A .
DATE	AREA CODE/PHONE	NUMBER

# Consolidated Waste Characterization Report

PI 46815

PERMIT NUMBER: MONITORED LOCATION: MONITORING PERIOD:

FACILITY NAME:

NJ0025411

462B DSN 462B - DSW Intern 7/1/2012 TO 12/31/2012

HOPE CREEK GENERATING STATION

SAMPLE DATE OF REPORT:

08/08/2012

PARAMETER	QL	REPORTED VALUE	UNITS	REMARK CODE	SAMPLE TYPE
Cyanide, Total (as CN) 00720 Effluent Gross Value	RQL = 40	430.0	UG/L		GRAB
Nickel, Total Recoverable 01074 Effluent Gross Value	RQL = 10	3.70	UG/L		GRAB
Zinc, Total Recoverable 01094 Effluent Gross Value	RQL = 10	139	UG/L		GRAB
Cadmium, Total Recoverable 01113 Effluent Gross Value	RQL = 4	20.111	UG/L		GRAB
Chromium, Total Recoverable 01118 Effluent Gross Value	RQL = 10	0.332	UG/L		GRAB
Copper, Total Recoverable 01119 Effluent Gross Value	RQL = 2	49.2	UG/L		GRAB
Lab Certification # 99999 Lab	PA166				NOT AP
Lab Certification # 99999 Lab					NOT AP
Lab Certification # 99999 Lab					NOT AP
Lab Certification # 99999 Lab					NOT AP
Lab Certification # 99999 Lab					NOT AP