

LR-E04-0118

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
ARTICLE NUMBER: 7001 1140 0002 6726 2809

Department of Environmental Protection Division of Water Quality Bureau of Permit Management P.O. Box 029 Trenton, N.J. 08625-0029

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 February 2004.

This report is required by and prepared specifically for the Environmental Protection Agency (EPA) and 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 J. Serfass at (856) 339-5411.

Sincerely,

Michael H. Brothers

Vice President - Site Operations

LR-E04-0118 NJPDES DMR

Attachments

C Executive Director, DRBC
USNRC - Docket number 50-354
Vice President - Site Operations
Manager - Nuclear Safety & Licensing
Christopher McAuliffe, Esq.
D. K. Hurka
E. J. Keating
J. Buchanan
J. Serfass
Patrick Whyte, Jr.
NJPDES Tech
NBS Room, MC N64
Chem File HCH 2004-013
Env Lic File 2.1.6 HC Book

LR-E04-0118 NJPDES DMR

EXPLANATION OF CONDITIONS

February 2004

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 1993 revision of the NJDEP DMR Instruction Manual and specific guidance from DEP personnel.

LR-E04-0118 NJPDES DMR

EXPLANATION OF EXCEEDANCES

February 2004

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, Michael H. Brothers, of full age, being duly sworn according to law, upon my oath depose and say:

- 1. I am the Vice President-Site Operations 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.

Michael H. Brothers

Vice President - Site Operations

Sworn and subscribed before me this 19th day of March 2004.

Kimberly J. Brown
Notary Public of New Jersey
My Commission Expires June 16, 2008

New Jersey Department of Environmental Protection Division of Water Quality

Surface Water Discharge Monitoring Report Submittal Form

	Surface Water Discharge Monitoring Report St	
NJPDES PERMIT	MONITORING PERIOD	MONITORED LOCATION:
NJ0025411	Month Day Year Month Day Year 2 1 2004 To 2 29 2004	461A - DSN 461A - dsw
PERMITTEE: PSE&G NUCLEAR LLC PO BOX 236/N21 ALLOWAY CREEK NECK R HANCOCKS BRIDGE, NJ 08		REPORT RECIPIENT: PSE&G P.O. BOX 236/N21 HANCOCKS BRIDGE, NJ 08038
	REGION / COUNTY: Southern / Salem County	
CHECK IF APPLICABLE:	No Discharge this Monitoring Period Monitoring	Report Comments Attached
the certification or, in his absence the certification. Where the higher reponsibility or person designated another entity to operate the treat I certify under penalty of law that that, based on my inquiry of tho complete. I am aware that there	t ranking official having day-to-day managerial and operational respect a person designated by that person. For a local agency, the highest est ranking operator does not have the ability to authorize capital explict by that person shall also sign the second certification at the bottom ment works, the highest-ranking official of the contracted entity shall I have personally examined and am familiar with the information se individuals immediately responsible for obtaining the information are significant penalties for submitting false information, including lew Jersey Water Pollution Control Act provides for penalties up to	ranking operator of the treatment works shall sign penditures and hire personnel, a person having that a of this page. If the local agency has contracted with a sign the certification. In submitted in this document and all attachments, and on, I believe that the information is true, accurate and at the possibility of fine and/or imprisonment, pursuant
Michael H. Brothers, V	rice-President – Site Operations	N/A
NAME AND TITLE OF PRINCIPAL I	EXECUTIVE OFFICER, AUTHORIZED AGENT, OR *LICENSED OPERAT	OR GRADE AND REGISTRY NUMBER (IF APPLICABLE)
11/		3/15/2007 856-339-2901
SIGNATURE OF PRINCIPAL EXECU	JTIVE OFFICER, AUTHORIZED AGENT, OR *LICENSED OPERATOR	DATE AREA CODE/PHONE NUMBER
*For a local agency where the high person designated by that person sha	est ranking operator does not have the ability to authorize capital expend ll sign the following certification:	itures and hire personnel, a person having that responsibility o
I certify under penalty of law and in N/A	accordance with N.J.S.A. 58:10A-6F(5) that I have received and reviewed N/A	he attached discharge monitoring reports. N/A N/A
NAME AND TITLE	SIGNATURE	DATE AREA CODE/PHONE NUMBER

MONITORED LOCATION:

MONITORING PERIOD:

FACILITY NAME:

NJ0025411

461A DSN 461A - dsw

2/1/2004 TO 2/29/2004

HOPE CREEK GENERATING STATION

	IVIA BOIL TOTA " WOII			2 1/2007 TO BEOLDS THOSE OFFICER GENERALITY							
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	SAMPLE MEASUREMENT	38.426	45.451		****	****	*****		0	Continuous	
50050 1 Effluent Gross Value	PERMIT PEQUEREMENT	REPORT 61MOAV	REPORT DIDAMX	MGD	nine.		Services Services	*****	100	Continuous	METER
pH	SAMPLE MEASUREMENT	****	****		8.4	*****	8.6		0	1/Week	Grab
00400 1 Effluent Gross Value	PERMIT NEOLANGMENT	**************************************	actors.	*****	6.0 01DAMN		9.0 DIDAMX	su	11.7	1/Work	GRAB
Chlorine Produced Oxidants	SAMPLE MEASUREMENT	*****	*****		*****	<0.1	≺0. 1		0	3/Week	Grab
*CPOX 1 Effluent Gross Value	PERMIT RECOMMENSATION	North 2	enton.	*****	annya.	0.2 01MOAV	0.5 OIDAMX**	MG/L		3/Work	GRAB
Temperature,	SAMPLE MEASUREMENT	****	****		*****	21.1	24,4		0	Continuous	Meter
00010 1 Effluent Gross Value	PERMIT REQUIREMENT MOL	Append (A)	es estado de la composição de la composi	*****	are the second of the second o	REPORT 01MOAV	36,2 01DAMX	DEG.C		Continuous	METER
Temperature,	SAMPLE MEASUREMENT	****	*****		****	2.1	4.7		0	Continuous	Meter
00010 7 Intake From Stream	PERMIT RECURRENCEMENT MIN.	man XI	dest.	*****	and the second	REPORT 01MGAV	REPORT DIDAMX	DEG.C		Continuous se	METER
Carbon, Tot Organic	SAMPLE MEASUREMENT	*****	*****		*****	3	3		0	month	Grab
00680 1 Effluent Gross Value	Parents Parents Charges	A Part of the Control	And the second	*****		REPORT DINGAV	REPORT DIDAMX	MG/L		:=1/Month	GRAB

MONITORED LOCATION:

MONITORING PERIOD:

FACILITY NAME:

NJ0025411

461A DSN 461A - dsw

2/1/2004 TO 2/29/2004

HOPE CREEK GENERATING STATION

PARAMETER		QUANTITY	OR LOADING	UNITS	QUALI	TY OR CONCENTE	RATION	UNITS	NO. EX.	FREQ. OF ANALYSIS	SAMPLE TYPE
Carbon, Tot Organic (TOC)	SAMPLE MEASUREMENT	****	****		****	ł			0	Month	Calctd
00680 2 Effluent Net Value	PERMIT REGUREMENT MDL	a the said	errant."	*****	i teritoria.	REPORT 01MOAV	REPORT 01DAMX	MG/L	A. A.	1/Month	CALCTD
Carbon, Tot Organic (TOC)	SAMPLE MEASUREMENT	****	****		****	Q	2		0	Month	Grab
00680 7 Intake From Stream	PERMIT RECORREMENT MOL	Arten Cart	. presin	****	(* ***********************************	REPORT 01MOAV	REPORT 01DAMX	MG/L		1/Month	GRAB
Heat (winter) (per Hr.)	SAMPLE MEASUREMENT	444	625		****	*****	****		0	Hay	Calcta
81387 1 Effluent Gross Value	PERMIT REGULERRATION MEG.	REPORT 01MOAV	662 - 01DANX	MBTU/HR	ALLAY.		Section 2	*****		1/Day	CALCTO
Lab Certification #	SAMPLE MEASUREMENT	17451	РАЗИЗ		06431						
99999 99 Lab	PERMIT RECUMENSHIT RECU	AEPORT	REPORT		REPORT Lab # 19	REPORT.	REPORT Lab #			Not Applie	NOT AP

New Jersey Department of Environmental Protection Division of Water Quality

Surface Water Discharge Monitoring Report Submittal Form

NJPDES PERMIT		M	ONITO	RIN	G PERIC	OD		MONITORED LOCATION:
NJ0025411	Month 2	Day 1	Year 2004	То	Month 2	Day 29	Year 2004	461C - DSN 461C - DSW internal
PERMITTEE: PSE&G NUCLEAR LLC PO BOX 236/N21 ALLOWAY CREEK NECK R HANCOCKS BRIDGE, NJ 08			HOPE C ARTIFIC FOOT C	REEK CIAL OF BU	N OF AC GENERA ISLAND TTONWO OWAYS C	ATING ST	FATION	REPORT RECIPIENT: PSE&G P.O. BOX 236/N21 HANCOCKS BRIDGE, NJ 08038
	R	EGION	/ COUNT	ΓY:Sα	outhern / S	Salem Co	unty	
CHECK IF APPLICABLE:	No D	ischarge	this Mon	ito ri n	g Period	X N	Monitorin	g Report Comments Attached
the certification or, in his absence the certification. Where the highe reponsibility or person designated another entity to operate the treats I certify under penalty of law that that, based on my inquiry of those	a person do st ranking of by that per ment works t I have per se individua are signification	esignated operator of son shall, the high resonally als immediant penal water Po	by that polices not had also sign nest-ranking examined diately resties for sullution Control	erson. ave the set of file of file and an opensite of file bmittintrol A	For a local ability to cond certificial of the maniliar olde for obtaing false in Act provide	I agency, to authorize fication at contracted with the aining the formation	the highest capital ex the botton d entity sha information information, including	n submitted in this document and all attachments, and on, I believe that the information is true, accurate and g the possibility of fine and/or imprisonment, pursuant
NAME AND TITLE OF PRINCIPAL I	EXECUTIVE	OFFICER	, AUTHOR	IZED A	AGENT, OR	*LICENSE	D OPERAT	OR GRADE AND REGISTRY NUMBER (IF APPLICABLE)
mit					<u></u>			3/14/2007 856-339-2901
CICMATTIDE OF BRINGINAL EVEC	TIVE OFFIC	CER, AUT	HORIZED		T, OR *LICI	ENSED OP	ERATOR	DATE AREA CODE/PHONE NUMBER
*For a local agency where the higher person designated by that person sha	est ranking o	perator d llowing ce	oes not hav rtification:	e the c	ability to au	thorize cap	pital expend	litures and hire personnel, a person having that responsibility or
*For a local agency where the high person designated by that person sha	ll sign the fo	llowing ce	rtification:	6F(5) 1			_	ditures and hire personnel, a person having that responsibility or the attached discharge monitoring reports. N/A N/A

MONITORED LOCATION:

MONITORING PERIOD:

FACILITY NAME:

NJ0025411

461C DSN 461C - DSW interna

2/1/2004 TO 2/29/2004

HOPE CREEK GENERATING STATION

			OVI IJICOTTIC A								
PARAMETER	X	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	0.041	0.180		****	****	由有效的		0	Continuous	Meter
50050 1 Effluent Gross Value	PERMIT RECORDERATE	REPORT DINOAV	REPORT DIPANX	MGD	Property Control		enero.	*****		Continuous	METER
Solids, Total Suspended	SAMPLE MEASUREMENT	****	****		****	:38	71		٥	Month	Compos
00530 1 Effluent Gross Value	PERMIT AROUNISMENT	trans.	Property of the second	*****	and the second s	30 O1MGAV	100 01DAMX	MG/L	T.	1/Month	COMPOS
Petrol Hydrocarbons, Total Recoverable	SAMPLE MEASUREMENT	*****	****		****	~ 1	<1		0	2/Month	Company of the Compan
45501 1 Effluent Gross Value	PERMIT RECEIPENT	Control of the Contro	And the second s	*****	Separe (California)	10 01MOAV	15 01DAMX	MG/L		2/Month	GRAB.
Carbon, Tot Organic (TOC)	SAMPLE MEASUREMENT	*****	*****		*****	16	16		U	Month	
00680 1 Effluent Gross Value	PERMIT RECOMMENT	e energia	Average To the Control of the Contro	*****	Again.	REPORT 01MQAV	50 OIDAMX	MG/L		/Month	COMPOS
Lab Certification #	SAMPLE MEASUREMENT	17451	PR343		06431						
99999 99 Lab	PERMET RECURRENCE MEL	REPORT Lab #	PEPORT Lab #		REPORT Lab #	REPORT Lab #	REPORT Laby		i.	Not Applic	NOT AP

*See attached explanation

Attachment:
New Jersey Department of Environmental Protection
Division of Water Quality
Surface Water Discharge Monitoring Report Submittal Form

NJPDES PERMIT: NJ0025411

MONITORING PERIOD: 2/1/2004 to 2/29/2004

MONITORED LOCATION: 461C - DSN 461C - DSW internal

MONITORING REPORT COMMENTS:

Sample frequency is once per month for total suspended solids. Usually, a replicate analysis is performed and the results of the initial sample analysis and the replicate analysis are averaged and reported as the monthly average and daily maximum. However, the first sample was scheduled for and obtained on 2/10/2004 at which time the system was in an upset condition due to prolonged sub-freezing temperatures. The result of that sample analysis is reported herein as the daily maximum. Additional samples were obtained and analyzed on 2/18/2004, 2/19/2004 and 2/20/2004 (initial and replicate). The monthly average reported represents the average of the results of all four samples obtained in the aforementioned manner.

New Jersey Department of Environmental Protection Division of Water Quality

Surface Water Discharge Monitoring Report Submittal Form

NJPDES PERMIT	MONITORING PERIOD	MONITORED LOCATION:									
NJ0025411	Month Day Year Month Day Year 2 1 2004 To 2 29 2004	462B - dsn 462B - dsw outfall									
PERMITTEE: PSE&G NUCLEAR LLC PO BOX 236/N21 ALLOWAY CREEK NECK R HANCOCKS BRIDGE, NJ 08		REPORT RECIPIENT: PSE&G P.O. BOX 236/N21 HANCOCKS BRIDGE, NJ 08038									
REGION / COUNTY: Southern / Salem County											
CHECK IF APPLICABLE:	☐ No Discharge this Monitoring Period ☐ Monitoring	Report Comments Attached									
the certification or, in his absence the certification. Where the higher reponsibility or person designated another entity to operate the treat. I certify under penalty of law that that, based on my inquiry of those complete. I am aware that there	tranking official having day-to-day managerial and operational respect a person designated by that person. For a local agency, the highest is tranking operator does not have the ability to authorize capital exploit by that person shall also sign the second certification at the bottom ment works, the highest-ranking official of the contracted entity shall it I have personally examined and am familiar with the information see individuals immediately responsible for obtaining the information are significant penalties for submitting false information, including few Jersey Water Pollution Control Act provides for penalties up to the second certification of the contracted entity shall be information.	ranking operator of the treatment works shall sign enditures and hire personnel, a person having that of this page. If the local agency has contracted with a submitted in this document and all attachments, and in, I believe that the information is true, accurate and the possibility of fine and/or imprisonment, pursuant									
Michael H. Brothers, V	/ice-President – Site Operations	N/A									
NAME AND TITLE OF PRINCIPAL I	EXECUTIVE OFFICER, AUTHORIZED AGENT, OR *LICENSED OPERATO	OR GRADE AND REGISTRY NUMBER (IF APPLICABLE)									
in 17		3/15/2004 856-339-2901									
SIGNATURE OF PRINCIPAL EXECU	TIVE OFFICER, AUTHORIZED AGENT, OR *LICENSED OPERATOR	DATE AREA CODE/PHONE NUMBER									
*For a local agency where the high person designated by that person sha	est ranking operator does not have the ability to authorize capital expendi ll sign the following certification:	tures and hire personnel, a person having that responsibility or									
I certify under penalty of law and in a	accordance with N.J.S.A. 58:10A-6F(5) that I have received and reviewed the	he attached discharge monitoring reports. N/A N/A									

DATE

AREA CODE/PHONE NUMBER

SIGNATURE

NAME AND TITLE

MONITORED LOCATION:

MONITORING PERIOD:

FACILITY NAME:

NJ0025411

462B dsn 462B - dsw outfall

2/1/2004 TO 2/29/2004

HOPE CREEK GENERATING STATION

											r
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	0.008	0.038		****	****	****		0	Day	Meter
50050 1 Effluent Gross Value	PERMIT RECURREMENT	REPORT 01MOAV	REPORT 01DAMX	MGD	14140	erent :		*****	1.1	1/Dey	WETER
BOD, 5-Day (20 oC)	SAMPLE MEASUREMENT	***	****		*****	329	329		U	Month	Compos
00310 G Raw Sew/influent	PERMIT REGAMEMENT MOL	terie.	erine :	*****	Casses 1	REPORT 01MOAV	REPORT DIDAMX	MG/L		1/Month	COMPOS
BOD, 5-Day (20 oC)	SAMPLE MEASUREMENT	0	O		****	8	8		0	month	Compos
00310 1 Effluent Gross Value	PERMIT REQUIREMENT	VAOMIO	REPORT 01WKAV	KG/DAY	eposts.	30 CIMOAV	01WKAV	MG/L		1/Month	COMPOS
BOD, 5-Day (20 oC)	SAMPLE MEASUREMENT	****	*****		97.4	*****	97.4		0	Month	Caleta
00310 K Percent Removal	PERMIT REGULARIMENT MOL	**************************************	A Comment	*****	87.5 01DAMN	April 1	REPORT Q1MOAV	PERCENT		1/Month	CALCTD
Solids, Total Suspended	SAMPLE MEASUREMENT	****	*****		***	314	314		0	Month	Compos
00530 G Raw Sew/influent	PERMIT PERSONNEMENT MOL	crear (sp.)	entropy (second property)	*****	Auria 	REPORT 01MOAV	REPORT 01DAMX	MG/L		1/Month	COMPOS
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	****		*****	9	9		٥	Month	Compos
00530 1 Effluent Gross Value	PERMIT NECKTORAGE NECKTORAGE	en Cartie	e die Les gronnes	*****	enen.	30 DIMOAV ()	an 45 DOIWKAV	MG/L		1/Month	COMPOS

.... weer Discharge Monitoring Report

MONITORED LOCATION:

MONITORING PERIOD:

FACILITY NAME:

NJ0025411

462B dsn 462B - dsw outfall

2/1/2004 TO 2/29/2004

HOPE CREEK GENERATING STATION

		4011 40ED - 43	W Odlian 2		O DESILOUT		EIC OIMITEITATII				
PARAMETER	X	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	Month	Caleta
00530 K Percent Removal	PERMIT PROCESSES	entre de la constante de la co	*****	*****	85 QIDAMN	REPORT 01MQAV	Septem	PERCENT		1/Month	CALCTO
Oil and Grease	SAMPLE MEASUREMENT	*****	*****		*****	ч	Н		Ò	Month	Grab
00556 1 Effluent Gross Value	PERMIT RECOURSEMENT	N. A. greate	*****	*****		10 01MOAV	15 01DAMX	MG/L		1/Month	GRAB
Coliform, Fecal General	SAMPLE MEASUREMENT	*****	*****		*****	V	<1		0	month	Grab
74055 1 Effluent Gross Value	PERMIT (ELLA ENGINEE)	1000	The state of the s	*****	**************************************	200 D1MOGE	400 01WKGE	#/100ML	1.00	-1/Month	GRAB
Lab Certification #	SAMPLE MEASUREMENT	17451	PA 343		06431						
99999 99 Lab	PERMIT REQUIREMENT	REPORT Leb#	REPORT Lab #		REPORT Lab #	REPORT Lab #	REPORT			Not Applic	NOT AR