AUG 2 2 2007

Nuclear LL

HCH-2007-081

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
ARTICLE NUMBER: 7003 0500 0003 4469 3945

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 July 2007.

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.

Singerely,

George P. Barnes

Site Vice President – Hope Creek

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74. . .

95-2168 REV. 7/99

#### Attachments

C Executive Director, DRBC
USNRC - Docket number 50-354
Site Vice President — Hope Creek
Director — Regulatory Assurance
Christopher McAuliffe, Esq.
E. J. Keating
E. K. West
C. E. White
NJPDES Technician

HCH-2007-081 NJPDES DMR

#### **EXPLANATION OF CONDITIONS**

#### **July 2007**

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.

**EXPLANATION OF EXCEEDANCES** 

July 2007

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, George P. Barnes, 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.

George P. Barnes

Site Vice President - Hope Creek

Sworn and subscribed before me this 2200 day of August 2007.

DELORIS D. HADDEN
Notary Public of New Jersey
My Commission Expires 03/29/2010
ID # 2073649

### New Jersey Department of Environmental Protection Division of Water Quality

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

NJPDES PERMIT	MONITORING PERIOD	MONITOR	ED LOCATION:
NJ0025411	Month   Day   Year     Month   Day   Year	1A - DSN 461A	- dsw
PERMITTEE:  PSE&G NUCLEAR LLC  PO BOX 236-N21 - ALLOW,  RD  HANCOCKS BRIDGE, NJ 08	FOOT OF BUTTONWOOD RD	REPORT REC PSE&G TIFFANY BABAN P.O. BOX 236 / H HANCOCKS BRID	N 15
	REGION / COUNTY: Southern / Salem County		·
CHECK IF APPLICABLE:	No Discharge this Monitoring Period Monitoring Re	oort Comments Attac	hed
reponsibility or person designate another entity to operate the treat I certify under penalty of law that, based on my inquiry of the complete. I am aware that there	est ranking operator does not have the ability to authorize capital expend d by that person shall also sign the second certification at the bottom of the timent works, the highest-ranking official of the contracted entity shall signat I have personally examined and am familiar with the information subsection individuals immediately responsible for obtaining the information, I have significant penalties for submitting false information, including the New Jersey Water Pollution Control Act provides for penalties up to \$50	his page. If the local age the certification.  omitted in this docume believe that the information possibility of fine and	ent and all attachments, and nation is true, accurate and
George P. Barnes,	Site Vice President – Hope Creek	1	N/A
	EXECUTIVE OFFICER, AUTHORIZED AGENT, OR *LICENSED OPERATOR	1 1	FRY NUMBER (IF APPLICABLE) 856-339-1952
	UTIVE OFFICER, AUTHORIZED AGENT, OR *LICENSED OPERATOR	DATE	AREA CODE/PHONE NUMBER
*For a local agency where the hig person designated by that person sh	nest ranking operator does not have the ability to authorize capital expenditure all sign the following certification:	s and hire personnel, a p	person having that responsibility o
	accordance with N.J.S.A. 58:10A-6F(5) that I have received and reviewed the a	_	
N/A	N/A	N/A	N/A

MONITORED LOCATION:

MONITORING PERIOD:

FACILITY NAME:

NJ0025411

461A DSN 461A - dsw

7/1/2007 TO 7/31/2007

HOPE CREEK GENERATING STATION

PARAMETER	X	QUANTITY C	R LOADING	UNITS	QUALI	TY OR CONCENTR	ATION	UNITS	NO. EX.	FREQ. OF ANALYSIS	SAMPLE TYPE
Flow, In Conduit or Thru Treatment Plant	SAMPLE MEASUREMENT	58.393	61.682		****	****	<b>业业业</b> 业业		0	Fouthmont	weter
50050 1 Effluent Gross Value	PERMIT REQUIREMENT	REPORT 01MOAV	REPORT 01DAMX	MGD	*****	*****	******	*****		Continuous	METER
	, QL	******	*****	<u> </u>	**************************************						
Flow, In Conduit or  Thru Treatment Plant	SAMPLE MEASUREMENT	73.156	74.318		*****	*****	*****	1	0	in thuous	weter
50050 7 Intake From Stream	PERMIT REQUIREMENT	REPORT 01MOAV	REPORT 01DAMX	MGD	******	*****	******	*****	100 mg/s	Continuous	METER
	QL	*****	*****	ļ	******				\( (3.5\)		
pH	SAMPLE MEASUREMENT	*****	****		8.3	*****	8.5		0	Tweek	Grab
00400 1 Effluent Gross Value	PERMIT REQUIREMENT	***	******	*****	6.0 01DAMN	*****	9.0 01DAMX	su		1/Week	GRAB.
	QL	*****	*****		******	*****	*****		2.00		
Chlorine Produced Oxidants	SAMPLE MEASUREMENT	*****	*****		*****	< 0. i	40.1		0	Achtin usus	Gisb
*CPOX 1 Effluent Gross Value	PERMIT REQUIREMENT	******	*****	*****	******	0.2 01MOAV	0.5 01DAMX	MG/L		Continuous	GRAB
	RQL	*****	*****		*****	0.1	0.1				
Temperature,	SAMPLE MEASUREMENT	*****	*****		*****	32.3	34.3		0	Continuou)	uneter
00010 1 Effluent Gross Value	PERMIT REQUIREMENT.	******	*****	•••••	*****	REPORT 01MOAV	36.2 01DAMX	DEG.C	73.78	Continuous	METER
	QL	*****	*****		*****	******	*****				
Temperature,	SAMPLE MEASUREMENT	4****	***		***	27.0	28.2		0	is not hugus	weter
00010 7 Intake From Stream	PERMIT REQUIREMENT	******	******	******	******	REPORT 01MOAV	REPORT 01DAMX	DEG.C		Continuous	Company of the compan
	QL	*****	*****		*****	******	*****				

MONITORED LOCATION:

MONITORING PERIOD:

FACILITY NAME:

NJ0025411

461A DSN 461A - dsw

7/1/2007 TO 7/31/2007

HOPE CREEK GENERATING STATION

							·				
PARAMETER	$\times$	QUANTITY (	OR LOADING	UNITS	QUALI	TY OR CONCENTR	ATION	UNITS	NO. EX.	FREQ. OF ANALYSIS	SAMPLE TYPE
Carbon, Tot Organic (TOC)	SAMPLE MEASUREMENT	****	*****		*****	2	2		0	month	Grab
00680 1 Effluent Gross Value	PERMIT REQUIREMENT		*****	*****	*****	REPORT A	REPORT 01DAMX	MG/L		1/Month	GRAB
	QL	*****	*****		****	*****	*****				A TANK LAND
Carbon, Tot Organic (TOC)	SAMPLE MEASUREMENT	. *****	*****		*****	0	0		0	1/mointh	Calota
00680 2 Effluent Net Value	PERMIT REQUIREMENT		*****	*****	*****	REPORT 01MOAV	REPORT 01DAMX	MG/L		1/Month	CALCTD
	QL V	******	*****		1 V 9000 0 1940 to 13 A 115	*****	*****		- 1. Lev		
Carbon, Tot Organic (TOC)	SAMPLE MEASUREMENT	*****	****		*****	2	2		0	Ymonth	Grab
00680 7 Intake From Stream	PERMIT REQUIREMENT	******	**************************************	*****	**************************************	REPORT 01MOAV	REPORT 01DAMX	MG/L	Sign to comment	1/Month	GRAB
	o QL	*****	*****		*****	1,0070 *******	******		in more thanks		
Heat (summer) (per Hr.)	SAMPLE MEASUREMENT	192	262		****	****	****		0	1/024	Calcita
81386 1 Effluent Gross Value	PERMIT REQUIREMENT	REPORT 01MOAV	534 01DAMX	MBTU/HR	*****	*****	# <b>****</b>	*****		1/Day	CALCTD
	QL	*****	******	:	*****	*****	*****		*****		
Lab Certification #	SAMPLE MEASUREMENT	17451	PA 166								
99999 99 Lab	PERMIT REQUIREMENT	REPORT	REPORT		REPORT Lab #	REPORT	BEPORT.		7.584 \$ .21 (1.584 \$ .21 (1.585 \$ 1.084)	Not Applic	NOT AP
	QL	*****	*****	1	*****	*****	*****		i inte	10 10 10 10 10 10 10 10 10 10 10 10 10 1	

## 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           7         1         2007         To         7         31         2007	461C - DSN 461C - DSW internal
PERMITTEE: PSE&G NUCLEAR LLC PO BOX 236-N21 - ALLOWA RD HANCOCKS BRIDGE, NJ 08	FOOT OF BUTTONWOOD RD LOWER ALLOWAYS CREEK, NJ 08038-00	REPORT RECIPIENT:  PSE&G TIFFANY BABAN P.O. BOX 236 / H15 HANCOCKS BRIDGE, NJ 08038
	REGION / COUNTY: Southern / Salem County	
CHECK IF APPLICABLE:	■ No Discharge this Monitoring Period ■ Monitoring	Report Comments Attached
the certification. Where the higher reponsibility or person designated another entity to operate the treat. I certify under penalty of law that, based on my inquiry of tho complete. I am aware that there	e a person designated by that person. For a local agency, the highest rest ranking operator does not have the ability to authorize capital exped by that person shall also sign the second certification at the bottom timent works, the highest-ranking official of the contracted entity shall at I have personally examined and am familiar with the information are individuals immediately responsible for obtaining the information are significant penalties for submitting false information, including New Jersey Water Pollution Control Act provides for penalties up to Secondary.	enditures and hire personnel, a person having that of this page. If the local agency has contracted with I sign the certification.  submitted in this document and all attachments, and n, I believe that the information is true, accurate and the possibility of fine and/or imprisonment, pursuant
George P. Barnes,	Site Vice President – Hope Creek	N/A
	EXECUTIVE OFFICER, AUTHORIZED AGENT, OR *LICENSED OPERATO  CUMB	GRADE AND REGISTRY NUMBER (IF APPLICABLE)  856-339-1952
,	UTIVE OFFICER, AUTHORIZED AGENT, OR *LICENSED OPERATOR	DATE AREA CODE/PHONE NUMBER
*For a local agency where the high person designated by that person sha	nest ranking operator does not have the ability to authorize capital expendit all sign the following certification:	tures and hire personnel, a person having that responsibility or
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	ne attached discharge monitoring reports.
N/A	N/A	N/A N/A
NAME AND TITLE	SIGNATURE	DATE AREA CODE/PHONE NUMBER

MONITORED LOCATION:

MONITORING PERIOD:

FACILITY NAME:

NJ0025411

461C DSN 461C - DSW interna

7/1/2007 TO 7/31/2007

HOPE CREEK GENERATING STATION

						·					
PARAMETER	X	QUANTITY C	DR LOADING	UNITS	QUALI	TY OR CONCENTE	RATION	UNITS	NO. EX.	FREQ. OF ANALYSIS	SAMPLE TYPE
Flow, In Conduit or Thru Treatment Plant	SAMPLE MEASUREMENT	0.017	0.050		*****	<b>设治产效价</b>	****		0	rointhin would	meter
50050 1 Effluent Gross Value	PERMIT REQUIREMENT	REPORT 01MOAV	REPORT 01DAMX	MGD	*****	*****	*****	*****		Continuous	METER
	QL ,	*****	*****		*****	*****	*****		1.000 1.000		
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	*****		*****	4	4		0	Ymonth	Compos
00530 1 Effluent Gross Value	PERMIT REQUIREMENT	*****	******	*****		30 01MOAV	100 01DAMX	MG/L		1/Month	COMPOS
	QL	*****	*****		******	*****	*****				
Petrol Hydrocarbons,	SAMPLE MEASUREMENT	****	*****		****	< 0.5	10.5		0	2/month	Grab
45501 1 Effluent Gross Value	PERMIT REQUIREMENT	****	*****	*****	*****	10 01MOAV	15 01DAMX	MG/L		2/Mônth	GRAB
	QL V	*****	*****		*****	*****	*****		3. and		Account to
Carbon, Tot Organic (TOC)	SAMPLE MEASUREMENT	***	*****		****	7	7		0	Ynorth	Compos
00680 1 Effluent Gross Value	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT 01MOAV	50 01DAMX	MG/L		1/Month	COMPOS
	QL	******	*****		*****	****	****				
Lab Certification #	SAMPLE MEASUREMENT	17451	PA 166								
99999 99 Lab	PERMIT REQUIREMENT	REPORT Lab #	REPORT Lab #		REPORT	REPORT Lab#	Lab #			Not Applic	
	(QL	*****	*****	:	*****	*****	*****	l			

#### New Jersey Department of Environmental Protection Division of Water Quality

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

NJPDES PERMIT	MONITORING PERIOD	MONITOR	ED LOCATION:
NJ0025411	Month   Day   Year     Month   Day   Year	62B - dsn 462B -	dsw outfall
PERMITTEE: PSE&G NUCLEAR LLC PO BOX 236-N21 - ALLOWA RD HANCOCKS BRIDGE, NJ 08	FOOT OF BUTTONWOOD RD	REPORT REC PSE&G TIFFANY BABAN P.O. BOX 236 / H HANCOCKS BRID	
·	REGION / COUNTY: Southern / Salem County		
CHECK IF APPLICABLE:	No Discharge this Monitoring Period Monitoring Ro	eport Comments Attac	hed
the certification. Where the higher reponsibility or person designate another entity to operate the treat I certify under penalty of law th that, based on my inquiry of the complete. I am aware that there	e a person designated by that person. For a local agency, the highest rarest ranking operator does not have the ability to authorize capital expend by that person shall also sign the second certification at the bottom of ment works, the highest-ranking official of the contracted entity shall start I have personally examined and am familiar with the information state individuals immediately responsible for obtaining the information, are significant penalties for submitting false information, including the New Jersey Water Pollution Control Act provides for penalties up to \$5	nditures and hire personn f this page. If the local a sign the certification. ubmitted in this docume I believe that the inform the possibility of fine and	el, a person having that gency has contracted with nt and all attachments, and nation is true, accurate and
George P. Barnes,	Site Vice President – Hope Creek	N	I/A
NAME AND TITLE OF PRINCIPAL	EXECUTIVE OFFICER, AUTHORIZED AGENT, OR *LICENSED OPERATOR	,	TRY NUMBER (IF APPLICABLE) 856-339-1952
	UTIVE OFFICER, AUTHORIZED AGENT, OR *LICENSED OPERATOR  test ranking operator does not have the ability to authorize capital expenditure all sign the following certification:	DATE	AREA CODE/PHONE NUMBER
	accordance with N.J.S.A. 58:10A-6F(5) that I have received and reviewed the	•	- ·
I certify under penalty of law and in N/A		attached discharge monito N/A	ring reports.

MONITORED LOCATION:

MONITORING PERIOD:

FACILITY NAME:

NJ0025411

462B dsn 462B - dsw outfall

7/1/2007 TO 7/31/2007

**HOPE CREEK GENERATING STATION** 

11000000											
PARAMETER		QUANTITY C	R LOADING	UNITS	QUALI	TY OR CONCENTR	ATION	UNITS	NO. EX.	FREQ. OF ANALYSIS	SAMPLE TYPE
Flow, In Conduit or Thru Treatment Plant	SAMPLE MEASUREMENT	0.009	0.017		****	*****	*****	_	0	1/044	meter
50050 1 Effluent Gross Value	PERMIT REQUIREMENT	REPORT 01MOAV	REPORT 01DAMX	MGD	******	*****	*****	*****		1/Day	MÉTER
	C QL	*****	*****		*****	*****	******				
BOD, 5-Day (20 oC)	SAMPLE MEASUREMENT	*****	*****		****	168	168		0	1/month	Compos
00310 G Raw Sew/influent	PERMIT REQUIREMENT		*****	*****	*****	REPORT 01MOAV	REPORT 01DAMX	MG/L		1/Month	COMPOS
	- QL	*****	****		*****	*****	*****				
BOD, 5-Day (20 oC)	SAMPLE MEASUREMENT	1	1		****	12	12		0	1month	Compos
00310 1 Effluent Gross Value	PERMIT REQUIREMENT	8 01MOAV	REPORT 01WKAV	KG/DAY	****	30 01MOAV	45 01WKAV	MG/L	- 1987 - 1987 - 1987 - 1988 -	1/Month	COMPOS
	QL	*****	*****		****	*****	*****		· .,,'		
BOD, 5-Day (20 oC)	SAMPLE MEASUREMENT	****	*****		92.7	*****	*****		0	month	Caletd
00310 K Percent Removal	PERMIT REQUIREMENT	******	****	*****	87.5 01MOAVMN	******	*****	PERCENT		1/Month	CALCTD
	QL	*****	****		*****	*****	*****				
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	****		****	160	160		0	Month	Compas
00530 G Raw Sew/influent	PERMIT REQUIREMENT	*****	******	*****	******	REPORT 01MOAV	REPORT 01DAMX	MG/L		1/Month	COMPOS
	QL	*****	*****	1	44244	******	*****				
Solids, Total	SAMPLE MEASUREMENT	*****	*****		*****	9	9	<u> </u>	0	1/month	Compes
Suspended 00530 1 Effluent Gross Value	PERMIT SEQUIREMENT	******	******	*****	· · · · · · · · · · · · · · · · · · ·	30 01MOAV	45 201WKAV	MG/L		1/Month	COMPOS
	, ,,,;QL	*****	*****		******	*****	*****		Jan San		

MONITORED LOCATION:

MONITORING PERIOD:

FACILITY NAME:

NJ0025411

462B dsn 462B - dsw outfall

7/1/2007 TO 7/31/2007

HOPE CREEK GENERATING STATION

PARAMETER	X	QUANTITY (	OR LOADING	UNITS	QUALI	TY OR CONCENTR	ATION	UNITS	NO. EX.	FREQ. OF ANALYSIS	SAMPLE TYPE
Solids, Total Suspended	SAMPLE MEASUREMENT	****	*****		94	94	*****		0	Ynorth	Calotd
00530 K Percent Removal	PERMIT REQUIREMENT		*****	*****	85 01MOAVMN	REPORT 01MOAV		PERCENT		1/Month	CALCTD
	OL .	******	******		*******	*****	*****	1			
Oil and Grease	SAMPLE MEASUREMENT	*****	*****	• .	*****	45	45		0	1/month	Grab
00556 1 Effluent Gross Value	PERMIT REQUIREMENT	******	******	*****	******	10 01MOAV	15 01DAMX	MG/L		1/Month	GRAB
	₹ QL	******	*****		*****	*****	*****				
Coliform, Fecal General	SAMPLE MEASUREMENT	*****	*****		****	< 10	<10		0	1/morath	Grab
74055 1 Effluent Gross Value	PERMIT REQUIREMENT	*****	******	****	******	200 01MOGE	400 01WKGE	#/100ML		1/Month	∰ GRAB
	QL	******	34634		*****	5.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	*****				26 - 48 E.S.
Lab Certification #	SAMPLE MEASUREMENT	17451	PA 166		06005						
99999 99 Lab	PERMIT	REPORT Lab#	REPORT Lab #		REPORT Lab #	REPORT	REPORT Lab #			Not Applic	NOT AP
	QĽ	*****	*****		£#####	*****	******			ľ	