JAN 23 2006



LR-E06-0018

CERTIFIED MAIL RETURN RECEIPT REQUESTED ARTICLE NUMBER: 7004 2510 0005 2135 6366

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:

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Attached is the Discharge Monitoring Report for the Hope Creek Generating Station for the month of December 2005.

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 Tiffany Baban at (856) 339-2628.

Sincerely, Lenge P. Bannie

George P. Barnes Site Vice President – Hope Creek



JAN 23 2006

LR-E06-0018 NJPDES DMR

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Attachments

C Executive Director, DRBC USNRC - Docket number 50-354 Site Vice President – Hope Creek Director – Regulatory Assurance Christopher McAuliffe, Esq. C.D. Gibson T. A. Baban E. J. Keating NJPDES Technician Chem File HCH 2006-052 2

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EXPLANATION OF CONDITIONS

December 2005

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.

Continuous monitoring is in place and functioning on DSN-461A for CPO. Electronic recording of that data had been interrupted from December 2nd through January 12th. Daily readings have been obtained verifying monitor performance during that time frame, along with visual checks on all backshifts. Upon discovery, shiftly grabs were initiated to further validate monitor performance. Electronic recording has been restored and shiftly monitor readings continue as a backup.

LR-E06-0018 NJPDES DMR

EXPLANATION OF EXCEEDANCES

December 2005

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

DSN No.

EXPLANATION

462B On December 28th 2005, Hope Creek Generating Station received analytical results from South Jersey Testing Laboratory, which indicated that the daily limit for oil and grease for DSN 462B had been exceeded. The reported value was 28.9 milligrams per liter (mg/l). The permit limit for oil and grease is 15 mg/l as a daily max and 10 mg/l for the monthly average.

> As this sample was obtained on December 21st, 2005 it is not known how long the system was out of compliance or the total volume of the discharge. However, the November 2005 sample and the subsequent samples on December 28th, 29th and 30th, 2005 indicated that the system was in compliance.

An investigation into the cause of the exceedance failed to identify a definitive cause as lift station samples, system and equipment inspections did not indicate a single source that would have caused the effluent of the sewage treatment plant to reach this level.

Upon discovery of initial results from SJT, follow-up samples were obtained on December 28th, 29th, and 30th which all indicated less than detectable oil and grease. The additional samples reduced the monthly average to within permit limits.

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LR-E06-0018 NJPDES DMR

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 23 kd day of January 2006.

Hadden

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

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New Jersey Department of Environmental Protection Division of Water Quality

Surface Water Discharge Monitoring Report Submittal Form

NJPDES PERMIT	MONITORING PERIOD	MONITORED LOCATION:
NJ0025411	MonthDayYearMonthDayYear1212005To12312005	461A - DSN 461A - dsw
PERMITTEE: PSE&G NUCLEAR LLC ALLOWAY CREEK NECK R 236/N21 HANCOCKS BRIDGE, NJ 08	FOOT OF BUTTONWOOD RD	REPORT RECIPIENT: PSE&G P.O. BOX 236/N21 HANCOCKS BRIDGE, NJ 08038 000
CHECK IF APPLICABLE:	No Discharge this Monitoring Period Monitoring	g 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	t ranking official having day-to-day managerial and operational res a person designated by that person. For a local agency, the highest st ranking operator does not have the ability to authorize capital ex- d by that person shall also sign the second certification at the botton ment works, the highest-ranking official of the contracted entity sha at I have personally examined and am familiar with the information se individuals immediately responsible for obtaining the information of the contract of the contract of the information.	ranking operator of the treatment works shall sign penditures and hire personnel, a person having that n of this page. If the local agency has contracted with all sign the certification. n submitted in this document and all attachments, and on, I believe that the information is true, accurate and
to N.J.A.C. 7:14A-6.9(B). The N	are significant penalties for submitting false information, including lew Jersey Water Pollution Control Act provides for penalties up to	\$50,000 per violation.
George P. Barnes, Si	te Vice President – Hope Creek	N/A
NAME AND FITLE OF PRINCIPAL	EXECUTIVE OFFICER, AUTHORIZED AGENT, OR *LICENSED OPERAT	FOR GRADE AND REGISTRY NUMBER (IF APPLICABLE) $\frac{1/23}{04}$ 856-339-1952
SIGNATURE OF PRINCIPAL EXEC	UTIVE OFFICER, AUTHORIZED AGENT, OR *LICENSED OPERATOR	DATE AREA CODE/PHONE NUMBER
*For a local agency where the high person designated by that person sho	est ranking operator does not have the ability to authorize capital expend Ill sign the following certification:	litures 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 attached discharge monitoring reports.
N/A	N/A	<u>N/A</u>
NAME AND TITLE	SIGNATURE.	DATE AREA CODE/PHONE NUMBER

PERMIT NUMBER: NJ0025411											ING STATION				
PARAMETER	QUANTITY OR LOADING			UNITS	QUALIT	Y OR CONCENTR	ATION	UNITS	NO. EX.	FREQ. OF ANALYSIS	SAMPLE TYPE				
Flow, In Conduit or Thru Treatment Plant	SAMPLE MEASUREMENT	41.057	46.021		*****	*****	*****		0	continuous	meter				
50050 1 Effluent Gross Value		REPORT 01MOAV	REPORT 01 DAMX	MGD	adaasaa 2	and a second sec	**************************************	******		Continuous	METER				
Flow, in Conduit or Thru Treatment Plant	SAMPLE MEASUREMENT	52,010	53.355		*****	*****	*****		0	Continuous					
50050 7 Intake From Stream	PERMIT REQUIREMENT	REPORT 01MOAV	REPORT 01DAMX	MGD	ainean an a	**************************************		*****		Continuous	METER				
pH	SAMPLE MEASUREMENT	*****	*****		8.6	*****	8.9		0	"/week	Grab				
00400 1 Effluent Gross Value	PERMIT REQUIREMENT QL	inters:	dina) Dirini	******	6.0 OTDAMN		9.0 01DAMX	SU		1/Week	GRAB				
Chlorine Produced Oxidants	SAMPLE MEASUREMENT	******	*****	8	*****	40.1	20.1		0	continuous	Grab				
*CPOX 1 Effluent Gross Value	PERMIT REQUIREMENT	******		******	******	0.2 01MOAV 0.1	0.5 01DAMX 0.1	MG/L		Continuous	GRAB				
Temperature, oC	SAMPLE MEASUREMENT	*****	*****		*****	19.0	23.1		0	continuous					
00010 1 Effluent Gross Value	PERIMIT REQUIREMENT	A89848		******	antitan Asaasa	REPORT 01MOAV	36.2 01DAMX	DEG.C		Continuous	METER				
Temperature, oC	SAMPLE MEASUREMENT	*****	*****		*****	7.7	11.4		0	continuous					
00010 7 Intake From Stream	PERMIT RECUIREMENT	errate errate	enner' la suite	••••••	****** ******	REPORT 01MOAV	REPORT 01DAMX	DEG.C		Continuous	METER				

Comments: If there are any questions in regards to the monitoring report form, please contact Susan Rosenwinkel of the BPSP - Regin 2 at (609) 292-4860 or via email at "susan.rosenwinkel@dep.state.nj.us".

PERMIT NUMBER:	MONI	ITORED LOCA	TION: N	IONITOR	ING PERIOD:	FACILITY N	AME:	···· •		<u>. </u>	
NJ0025411	461A	DSN 461A - ds	w 1	2/1/2005 TO 12/31/2005 HOPE CREEK GENERATING STATION							
PARAMETER	\square	QUANTITY C	OR LOADING	UNITS	QUALIT	TY OR CONCENTR	RATION	UNITS	NO. EX.	FREQ. OF ANALYSIS	SAMPLE TYPE
Carbon, Tot Organic (TOC)	SAMPLE MEASUREMENT	*****	*****		1	3	3		0	Vmonth	Grab
00680 1 Effluent Gross Value	PERMIT	A12233	******* ******	******		REPORT 01MOAV	REPORT 01DAMX	MG/L		i/Month	GRAB
Carbon, Tot Organic TOC)	QL SAMPLE MEASUREMENT	****	*****		*****	-3	-3		0	Ymonth	Calctd
00680 2 Effluent Net Value		444444 1456444	essás -	******	*****	REPORT 01MOAV	REPORT 01DAMX	MG/L		1/Month	CALCID
Carbon, Tot Organic (TOC)	SAMPLE	*****	****		*****	4	4		0	1/month	Grab
00680 7 Intake From Stream		ALL	saren.	******	enterne Alterne	REPORT 01MOAV	REPORT 01DAMX	MG/L		1/Month	GRAB
Heat (winter) (per Hr.)	SAMPLE	288	421		*****	******	*****		0	UDAY	Calctd
81387 1 Effluent Gross Value	PERMIT REQUIREMENT QL	REPORT 01MOAV	662 01DAMX	MBTU/HR	*****	ATTAAL	ANTRA			1/Day	CALCID
Lab Certification #	SAMPLE MEASUREMENT	17451	06431								
99999 99 Lab	PERMIT REQUIREMENT	REPORT Lab #	REPORT Lab #		REPORT Lab #	REPORT Lab #	REPORT - Lab #			Not Applic	NOT AP

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Comments: If there are any questions in regards to the monitoring report form, please contact Susan Rosenwinkel of the BPSP - Regin 2 at (609) 292-4860 or via email at "susan.rosenwinkel@dep.state.nj.us".

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New Jersey Department of Environmental Protection Division of Water Quality

Surface Water Discharge Monitoring Report Submittal Form

NJPDES PERMIT	MONITORIN	G PERIOD	MONITORI	ED LOCATION:
NJ0025411	MonthDayYear1212005To	MonthDayYear12312005	461C - DSN 461C	- DSW internal
PERMITTEE: PSE&G NUCLEAR LLC ALLOWAY CREEK NECK R 236/N21 HANCOCKS BRIDGE, NJ 08	D - PO BOX FOOT OF BU	TTONWOOD RD OWAYS CREEK, NJ 08038-0	REPORT REC PSE&G P.O. BOX 236/N21 HANCOCKS BRII	
CHECK IF APPLICABLE:	No Discharge this Monitorin	g Period 🛛 🗌 Monitorin	g Report Comments Attac	ned
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 to N.J.A.C. 7:14A-6.9(B). The N	ranking official having day-to-day a person designated by that person. st ranking operator does not have the by that person shall also sign the se nent works, the highest-ranking offi t I have personally examined and a e individuals immediately responsi are significant penalties for submitt ew Jersey Water Pollution Control are Vice President – Hope Cre	For a local agency, the highes e ability to authorize capital ex- econd certification at the bottor icial of the contracted entity sh m familiar with the information ble for obtaining the information ing false information, includin Act provides for penalties up to	t ranking operator of the treat penditures and hire personner n of this page. If the local a all sign the certification. on submitted in this document on, I believe that the inform g the possibility of fine and	attment works shall sign el, a person having that gency has contracted with at and all attachments, and nation is true, accurate and for imprisonment, pursuant
NAME AND TITLE OF PRINCIPAL	EXECUTIVE OFFICER, AUTHORIZED	AGENT, OR *LICENSED OPERAT	FOR GRADE AND REGIST $\frac{1}{23}/04$	RY NUMBER (IF APPLICABLE) 856-339-1952
SIGNATURE OF PRINCIPAL EXEC	TIVE OFFICER, AUTHORIZED AGEN	T, OR *LICENSED OPERATOR	DATE	AREA CODE/PHONE NUMBER
*For a local agency where the high person designated by that person sho	est ranking operator does not have the ll sign the following certification:	ability to authorize capital expen	ditures and hire personnel, a p	erson 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 attached discharge monitor	ing reports.
N/A	N/A		N/A	N/A
NAME AND TITLE	SIGNATURE		DATE	AREA CODE/PHONE NUMBER

PERMIT NUMBER:	······	TORED LOCA									
NJ0025411	461C	DSN 461C - DS	SW interna	12/1/2005	FO 12/31/2005	HOPE CRE	EK GENERATIN	G STAT	<u> </u>	·	
PARAMETER		QUANTITY C	OR LOADING	UNITS	QUALI	TY OR CONCENT	RATION	UNITS	NO. EX.	FREQ. OF ANALYSIS	SAMPLE TYPE
Flow, In Conduit or Thru Treatment Plant	SAMPLE MEASUREMENT	0.049	0.100		*****	*****	*****		0	continuous	meter
50050 1 Effluent Gross Value	PERMIT REQUIREMENT QL	REPORT OTMOAV	REPORT	MGD		attine	******	******		Continuous	METER
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	******		*****	9	9		0	1/month	Compos
00530 1 Effluent Gross Value	PERMIT REQUIREMENT			******	Landers (30 01MOAV	100 • 01DAMX •	MG/L		1/Month	COMPOS
Petrol Hydrocarbons, Total Recoverable	SAMPLE MEASUREMENT	*****	*****		*****	0	1		0	2/month	Grab
45501 1 Effluent Gross Value	PERMIT REQUIREMENT	******* ******		******	51155A	10 OTMOAV	15 01DAMX	MG/L		2/Month	GRAB
Carbon, Tot Organic (TOC)	SAMPLE MEASUREMENT	*****	*****		*****	2	2		0	1/month	Compos
00680 1 Effluent Gross Value			******	••••••••••••••••••••••••••••••••••••••	511555 C	REPORT 01MOAV	50 O1DAMX	MG/L		1/Month	COMPOS
Lab Certification #	SAMPLE MEASUREMENT	17451	06431								
99999 99 Lab	PERMIT REQUIREMENT	REPORT Lab #	REPORT		IREPORT Lab #	REPORT Lab #	REPORT Lab #			Not Applic	NOT AP

Comments: If there are any questions in regards to the monitoring report form, please contact Susan Rosenwinkel of the BPSP - Regin 2 at (609) 292-4860 or via email at "susan.rosenwinkel@dep.state.nj.us".

New Jersey Department of Environmental Protection Division of Water Quality

Surface Water Discharge Monitoring Report Submittal Form

NJPDES PERMIT	MONITOR	ING PERIOD	MONITOR	ED LOCATION:
NJ0025411	MonthDayYear1212005	MonthDayYeTo123120		dsw outfall
PERMITTEE: PSE&G NUCLEAR LLC ALLOWAY CREEK NECK R 236/N21 HANCOCKS BRIDGE, NJ 08 CHECK IF APPLICABLE:	HOPE CR D - PO BOX ARTIFIC FOOT OF 038 LOWER	TION OF ACTIVITY: REEK GENERATING STATI IAL ISLAND BUTTONWOOD RD ALLOWAYS CREEK, NJ 080 Y: Southern / Salem County	P.O. BOX 236/N2 HANCOCKS BRI	DGE, NJ 08038
WHO MUST SIGN The highes the certification or, in his absence the certification. Where the higher reponsibility or person designated another entity to operate the treat	t ranking official having day-to- e a person designated by that per est ranking operator does not hav d by that person shall also sign th	day managerial and operation rson. For a local agency, the hive the ability to authorize capi he second certification at the b	al responsibilities for the dischar- ghest ranking operator of the tre- tal expenditures and hire personn pottom of this page. If the local a	ging facility shall sign atment works shall sign el, a person having that
I certify under penalty of law that that, based on my inquiry of tho complete. I am aware that there to N.J.A.C. 7:14A-6.9(B). The N George P. Barnes, Sit	se individuals immediately resp are significant penalties for sub	onsible for obtaining the info omitting false information, inc trol Act provides for penalties	rmation, I believe that the informulation in the possibility of fine and	nation is true, accurate and /or imprisonment, pursuant
NAME AND TIFLE OF PRINCIPAL	EXECUTIVE OFFICER, AUTHORIZ	ZED AGENT, OR *LICENSED OP	ERATOR GRADE AND REGIST	RY NUMBER (IF APPLICABLE) 856-339-1952
SIGNATURE OF PRINCIPAL EXEC		GENT, OR *LICENSED OPERAT	OR DATE	AREA CODE/PHONE NUMBER
*For a local agency where the high person designated by that person sho		the ability to authorize capital e	expenditures and hire personnel, a p	erson having that responsibility or
I certify under penalty of law and in	accordance with N.J.S.A. 58:10A-6	F(5) that I have received and revi	ewed the attached discharge monitor	ing reports.
N/A	N/A	·	<u>N/A</u>	N/A
NAME AND TITLE	SIGNATURE		DATE	AREA CODE/PHONE NUMBER

PERMIT NUMBER:	MONITORED LOCATION:			MONITOR	ING PERIOD:	1 			• • •				
NJ0025411	462B dsn 462B - dsw outfall			12/1/2005	12/1/2005 TO 12/31/2005 HOPE CREE			EEK GENERATING STATION					
PARAMETER	\mathbf{X}	QUANTITY OR LOADING		UNITS	QUALIT	Y OR CONCENTRATION		UNITS	NO. EX.	FREQ. OF ANALYSIS	SAMPLE TYPE		
Flow, In Conduit or	SAMPLE MEASUREMENT	0.009	0.018		*****	*****	*****		0	10ay	meter		
50050 1 Effluent Gross Value	PERMIT REQUIREMENT	REPORT 01MOAV	REPORT 01DAMX	MGD	******			******		1/Day	METER		
BOD, 5-Day (20 oC)	SAMPLE	*****	******		*****	206	206		0.	1/month	Compos		
00310 G Raw Sew/influent		****** ******		••••••	******	REPORT 01MOAV	REPORT 01DAMX	MG/L		1/Month	COMPOS		
BOD, 5-Day (20 oC)	SAMPLE MEASUREMENT	. 1	1		****	20	20	•	0	Ymonth	Compos		
00310 1 Effluent Gross Value	PERMIT REQUIREMENT QL	8 OTMOAV	REPORT	KG/DAY	******	30 01MOAV	45 01WKAV	MG/L		1/Month	COMPOS		
BOD, 5-Day (20 oC)	SAMPLE MEASUREMENT	*****	******		90.0	*****	*****		0	1month	Calctd		
00310 K Percent Removal	PERMIT	*****	*****	••••••	87.5 OTMOAVMN	Allowed a		PERCENT		1/Month	CALCTD		
Solids, Total Suspended	SAMPLE	*****	******		*****	182	182		0	1/month	Compos		
00530 G Raw Sew/influent	PERMIT REQUIREMENT	A11948	estates	••••••	10. 11.11955 1. (11.11955	REPORT 01MOAV	REPORT 01DAMX	MG/L		1/Month	COMPOS		
Solids, Total Suspended	SAMPLE	*****	*****			17	17		0	1month	Compos		
00530 1 Effluent Gross Value	PERMIT REQUIREMENT	A+13.4.6 B+4.4.4.4	erratis Constant	******	******	30 01MOAV	45 01WKAV	MG/L		17Month	COMPOS		

Comments: If there are any questions in regards to the monitoring report form, please contact Susan Rosenwinkel of the BPSP - Regin 2 at (609) 292-4860 or via email at "susan.rosenwinkel@dep.state.nj.us".

<i>PERMIT NUMBER:</i> NJ0025411	MONITORED LOCATION: 462B dsn 462B - dsw outfall			· · · · · · · ·	<u>RING PERIOD:</u> TO 12/31/2005	FACILITY N	4 <i>ME:</i> EK GENERATIN	IG STATI	ION		
PARAMETER	$\mathbf{\succ}$	QUANTITY (OR LOADING	UNITS	QUALIT	Y OR CONCENTR	IATION	UNITS	NO. EX.	FREQ. OF ANALYSIS	SAMPLE TYPE
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	******		91	91	*****		0	1month	Culctd
00530 K Percent Removal	PERMIT REQUIREMENT QL	*****	STRACT	••••••	85 01MOAVMN	REPORT 01MOAV	******	PERCENT		1/Month	CALCID
Oil and Grease	SAMPLE	*****	*****		*****	8	29		·	1month	Grab
00556 1 Effluent Gross Value		assant . Historia	(###### ###### ######	******	25272A	10 01MOAV	15 01DAMX	MG/L		1/Month	GRAB
Coliform, Fecal General	SAMPLE MEASUREMENT	*****	*****		****	42	42		0	1/month	Grab
74055 1 Effluent Gross Value				******	22897478 Sebase	200 01MOGE	400 01WKGE	#/100ML		1/Month	GRAB
Lab Certification #	SAMPLE	17451	06431					· · ·			
99999 99 Lab		REPORT Lab #	REPORT Lab #		REPORT Lab #	REPORT Lab #	REPORT Lab #			Not Applic	NOT AP

* see attached explanation of exceedance page.

Comments: If there are any questions in regards to the monitoring report form, please contact Susan Rosenwinkel of the BPSP - Regin 2 at (609) 292-4860 or via email at "susan.rosenwinkel@dep.state.nj.us".