

DEC 23 2013



HCH-2013-069

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED  
ARTICLE NUMBER: 7011 3500 0000 5084 6260

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 November 2013 and the Consolidated Waste Characterization Report for DSN 462B.

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,

A handwritten signature in black ink that reads "Paul J. Davison".

Paul J. Davison  
Site Vice President – Hope Creek

IE25  
NRR



HCH-2013-069  
NJPDES DMR

2

DEC 23 2013

Attachments

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

## EXPLANATION OF CONDITIONS

### **November 2013**

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 obtain additional operational data. Included on the DSN-461A MRF are the results from the Acute and Chronic Toxicity samples, the report will follow in the appropriate time frame allowed.

EXPLANATION OF EXCEEDANCES

**November 2013**

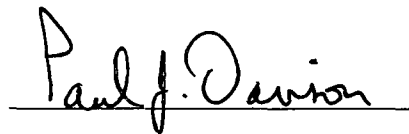
The following exceedances are included in the attached report and explained below.

| DSN No.               | EXPLANATION |
|-----------------------|-------------|
| <b>No Exceedances</b> |             |

COUNTY OF SALEM  
STATE OF NEW JERSEY

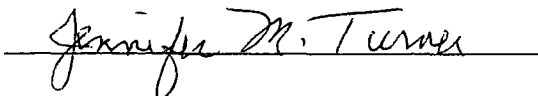
I, Paul J. Davison, of full age, being duly sworn according to law, upon my oath depose and say:

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.



Paul J. Davison  
Site Vice President – Hope Creek

Sworn and subscribed before me  
this 23 day of December, 2013.



JENNIFER M. TURNER

ID # 2382067

NOTARY PUBLIC OF NEW JERSEY

Commission Expires 8/8/2015

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

PI 46815

| NJPDES PERMIT    | MONITORING PERIOD   | MONITORED LOCATION: |     |      |    |   |      |       |     |      |    |    |      |                              |
|------------------|---|---------------------|-----|------|----|---|------|-------|-----|------|----|----|------|------------------------------|
| <b>NJ0025411</b> | <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="padding: 2px;">Month</td><td style="padding: 2px;">Day</td><td style="padding: 2px;">Year</td></tr><tr><td style="text-align: center; padding: 2px;">11</td><td style="text-align: center; padding: 2px;">1</td><td style="text-align: center; padding: 2px;">2013</td></tr></table> To <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="padding: 2px;">Month</td><td style="padding: 2px;">Day</td><td style="padding: 2px;">Year</td></tr><tr><td style="text-align: center; padding: 2px;">11</td><td style="text-align: center; padding: 2px;">30</td><td style="text-align: center; padding: 2px;">2013</td></tr></table> | Month               | Day | Year | 11 | 1 | 2013 | Month | Day | Year | 11 | 30 | 2013 | <b>461A – DSN 461A – DSW</b> |
| Month            | Day   | Year                |     |      |    |   |      |       |     |      |    |    |      |                              |
| 11               | 1   | 2013                |     |      |    |   |      |       |     |      |    |    |      |                              |
| Month            | Day   | Year                |     |      |    |   |      |       |     |      |    |    |      |                              |
| 11               | 30  | 2013                |     |      |    |   |      |       |     |      |    |    |      |                              |

**PERMITTEE:**

PSE&G NUCLEAR LLC  
PO BOX 236 – ALLOWAY CREEK NECK RD  
HANCOCKS BRIDGE, NJ 08038

**LOCATION OF ACTIVITY:**

HOPE CREEK GENERATING STATION  
ARTIFICIAL ISLAND  
FOOT OF BUTTONWOOD RD  
LOWER ALLOWAYS CREEK, NJ 08038

**REPORT RECIPIENT:**

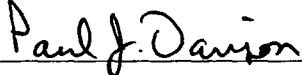
PSE&G  
TRAVIS ZIGO  
PO BOX 236 / H15  
HANCOCKS BRIDGE, NJ 08038

**REGION / COUNTY:** Southern / Salem County

**CHECK IF APPLICABLE:**    ☐ No Discharge this Monitoring Period    ☐ Monitoring Report Comments Attached

**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 that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of 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.

|   |              |
|---|--------------|
| Paul J. Davison, Site Vice President-Hope Creek                                     | N/A          |
|  | 12/23/13     |
| Paul J. Davison   | 856-339-1555 |

**SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER, AUTHORIZED AGENT, OR \*LICENSED OPERATOR**                      **DATE**                      **AREA CODE/PHONE 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 reviewed the attached discharge monitoring reports.

|     |     |     |
|-----|-----|-----|
| N/A | N/A | N/A |
| N/A | N/A | N/A |

**NAME AND TITLE**                      **SIGNATURE**                      **DATE**                      **AREA CODE/PHONE NUMBER**

# Surface Water Discharge Monitoring Report

PI 46815

PERMIT NUMBER:

MONITORED LOCATION:

MONITORING PERIOD:

FACILITY NAME:

NJ0025411

461A DSN 461A - DSW

11/1/2013 TO 11/30/2013

HOPE CREEK GENERATING STATION

| PARAMETER   |                    | QUANTITY OR LOADING |               | UNITS | QUALITY OR CONCENTRATION |               |               | UNITS | NO. EX. | FREQ. OF ANALYSIS | SAMPLE TYPE |
|---|--------------------|---------------------|---------------|-------|--------------------------|---------------|---------------|-------|---------|-------------------|-------------|
| Flow, In Conduit or Thru Treatment Plant<br>50050 1<br>Effluent Gross Value | SAMPLE MEASUREMENT | 42.030              | 57.729        | MGD   | *****                    | *****         | *****         | ***** | φ       | Continuous        | Meter       |
|   | PERMIT REQUIREMENT | REPORT 01MOAV       | REPORT 01DAMX |       | *****                    | *****         | *****         |       |         |                   |             |
|   | QL                 | *****               | *****         |       | *****                    | *****         | *****         |       |         |                   |             |
| Flow, In Conduit or Thru Treatment Plant<br>50050 7<br>Intake From Stream   | SAMPLE MEASUREMENT | 52.084              | 54.773        | MGD   | *****                    | *****         | *****         | ***** | φ       | Continuous        | Meter       |
|   | PERMIT REQUIREMENT | REPORT 01MOAV       | REPORT 01DAMX |       | *****                    | *****         | *****         |       |         |                   |             |
|   | QL                 | *****               | *****         |       | *****                    | *****         | *****         |       |         |                   |             |
| pH<br>00400 1<br>Effluent Gross Value                                       | SAMPLE MEASUREMENT | *****               | *****         | ***** | 7.8                      | *****         | 8.8           | SU    | φ       | 1/Week            | Grab        |
|   | PERMIT REQUIREMENT | *****               | *****         |       | 6.0<br>01DAMN            | *****         | 9.0<br>01DAMX |       |         |                   |             |
|   | QL                 | *****               | *****         |       | *****                    | *****         | *****         |       |         |                   |             |
| LC50 Statre 96hr Acu<br>Mysid Bahía<br>TAN3E 1<br>Effluent Gross Value      | SAMPLE MEASUREMENT | *****               | *****         | ***** | >100                     | *****         | *****         | %EFFL | φ       | 1/Year            | Compos      |
|   | PERMIT REQUIREMENT | *****               | *****         |       | REPORT 01RPMN            | *****         | *****         |       |         |                   |             |
|   | QL                 | *****               | *****         |       | *****                    | *****         | *****         |       |         |                   |             |
| IC25 Statre 7day Chr<br>Mysid Bahía<br>TBP3E 1<br>Effluent Gross Value      | SAMPLE MEASUREMENT | *****               | *****         | ***** | >100                     | *****         | *****         | %EFFL | φ       | 1/Year            | Compos      |
|   | PERMIT REQUIREMENT | *****               | *****         |       | REPORT 01RPMN            | *****         | *****         |       |         |                   |             |
|   | QL                 | *****               | *****         |       | *****                    | *****         | *****         |       |         |                   |             |
| Chlorine Produced<br>Oxidants<br>*CPOX 1<br>Effluent Gross Value            | SAMPLE MEASUREMENT | *****               | *****         | ***** | *****                    | <0.1          | <0.1          | MG/L  | φ       | 3/Week*           | Grab        |
|   | PERMIT REQUIREMENT | *****               | *****         |       | *****                    | 0.2<br>01MOAV | 0.5<br>01DAMX |       |         |                   |             |
|   | RQL                | *****               | *****         |       | *****                    | 0.1           | 0.1           |       |         |                   |             |

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.

\* See Explanations of Conditions

# Surface Water Discharge Monitoring Report

PI 46815

PERMIT NUMBER: NJ0025411 MONITORED LOCATION: 461A DSN 461A - DSW MONITORING PERIOD: 11/1/2013 TO 11/30/2013 FACILITY NAME: HOPE CREEK GENERATING STATION

| PARAMETER  |                    | QUANTITY OR LOADING |       | UNITS | QUALITY OR CONCENTRATION |               |               | UNITS | NO. EX. | FREQ. OF ANALYSIS | SAMPLE TYPE |
|--|--------------------|---------------------|-------|-------|--------------------------|---------------|---------------|-------|---------|-------------------|-------------|
| Temperature,<br>oC<br>00010 1<br>Effluent Gross Value        | SAMPLE MEASUREMENT | *****               | ***** | ***** | *****                    | 18.3          | 25.4          | DEG.C | Ø       | Continuous        | Meter       |
|  | PERMIT REQUIREMENT | *****               | ***** |       | *****                    | REPORT 01MOAV | 36.2 01DAMX   |       |         | Continuous        | METER       |
|  | QL                 | *****               | ***** |       | *****                    | *****         | *****         |       |         |                   |             |
| Temperature,<br>oC<br>00010 7<br>Intake From Stream          | SAMPLE MEASUREMENT | *****               | ***** | ***** | *****                    | 13.0          | 18.0          | DEG.C | Ø       | Continuous        | Meter       |
|  | PERMIT REQUIREMENT | *****               | ***** |       | *****                    | REPORT 01MOAV | REPORT 01DAMX |       |         | Continuous        | METER       |
|  | QL                 | *****               | ***** |       | *****                    | *****         | *****         |       |         |                   |             |
| Carbon, Tot Organic (TOC)<br>00680 1<br>Effluent Gross Value | SAMPLE MEASUREMENT | *****               | ***** | ***** | *****                    | 1.04          | 1.04          | MG/L  | Ø       | 1/month           | Grab        |
|  | PERMIT REQUIREMENT | *****               | ***** |       | *****                    | REPORT 01MOAV | REPORT 01DAMX |       |         | 1/Month           | GRAB        |
|  | QL                 | *****               | ***** |       | *****                    | *****         | *****         |       |         |                   |             |
| Carbon, Tot Organic (TOC)<br>00680 2<br>Effluent Net Value   | SAMPLE MEASUREMENT | *****               | ***** | ***** | *****                    | 0.06          | 0.06          | MG/L  | Ø       | 1/month           | Calcd       |
|  | PERMIT REQUIREMENT | *****               | ***** |       | *****                    | REPORT 01MOAV | REPORT 01DAMX |       |         | 1/Month           | CALCTD      |
|  | QL                 | *****               | ***** |       | *****                    | *****         | *****         |       |         |                   |             |
| Carbon, Tot Organic (TOC)<br>00680 7<br>Intake From Stream   | SAMPLE MEASUREMENT | *****               | ***** | ***** | *****                    | 1.06          | 1.06          | MG/L  | Ø       | 1/month           | Grab        |
|  | PERMIT REQUIREMENT | *****               | ***** |       | *****                    | REPORT 01MOAV | REPORT 01DAMX |       |         | 1/Month           | GRAB        |
|  | QL                 | *****               | ***** |       | *****                    | *****         | *****         |       |         |                   |             |
| Sulfate, Total (as SO4)<br>00945 1<br>Effluent Gross Value   | SAMPLE MEASUREMENT | *****               | ***** | ***** | *****                    | 1070000       | 1070000       | UG/L  | Ø       | 1/6 months        | Comp 24     |
|  | PERMIT REQUIREMENT | *****               | ***** |       | *****                    | REPORT 01MOAV | REPORT 01DAMX |       |         | 1/6 Months        | COMP24      |
|  | QL                 | *****               | ***** |       | *****                    | *****         | *****         |       |         |                   |             |

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.



# Surface Water Discharge Monitoring Report

PI 46815

PERMIT NUMBER: NJ0025411
 MONITORED LOCATION: 461A DSN 461A - DSW
 MONITORING PERIOD: 11/1/2013 TO 11/30/2013
 FACILITY NAME: HOPE CREEK GENERATING STATION

| PARAMETER   |                    | QUANTITY OR LOADING |              | UNITS   | QUALITY OR CONCENTRATION |               |               | UNITS | NO. EX. | FREQ. OF ANALYSIS | SAMPLE TYPE |
|---|--------------------|---------------------|--------------|---------|--------------------------|---------------|---------------|-------|---------|-------------------|-------------|
| Boron, Total<br>(as B)<br>01022 1<br>Effluent Gross Value       | SAMPLE MEASUREMENT | *****               | *****        | *****   | *****                    | 1720          | 1720          | UG/L  | Ø       | 1/6 Months        | Compos      |
|   | PERMIT REQUIREMENT | *****               | *****        |         | *****                    | REPORT 01MOAV | REPORT 01DAMX |       |         | 1/6 Months        | COMPOS      |
|   | QL                 | *****               | *****        |         | *****                    | *****         | *****         |       |         |                   |             |
| Heat (winter)<br>(per Hr.)<br>81387 1<br>Effluent Gross Value   | SAMPLE MEASUREMENT | 116                 | 783          | MBTU/HR | *****                    | *****         | *****         | ***** | Ø       | 1/day             | Calctd      |
|   | PERMIT REQUIREMENT | REPORT 01MOAV       | 662 01DAMX   |         | *****                    | *****         | *****         |       |         | 1/Day             | CALCTD      |
|   | QL                 | *****               | *****        |         | *****                    | *****         | *****         |       |         |                   |             |
| Copper,<br>Total Recoverable<br>01119 1<br>Effluent Gross Value | SAMPLE MEASUREMENT | *****               | *****        | *****   | *****                    | 8.90          | 8.90          | UG/L  | Ø       | 1/6 Months        | Compos      |
|   | PERMIT REQUIREMENT | *****               | *****        |         | *****                    | REPORT 01MOAV | REPORT 01DAMX |       |         | 1/6 Months        | COMPOS      |
|   | RQL                | *****               | *****        |         | *****                    | 2             | 2             |       |         |                   |             |
| Lab Certification #<br><br>99999 99<br>Lab                      | SAMPLE MEASUREMENT | 17451               | PA166        |         | 06005                    | 03036         | PA010         |       |         |                   |             |
|   | PERMIT REQUIREMENT | REPORT Lab #        | REPORT Lab # |         | REPORT Lab #             | REPORT Lab #  | REPORT Lab #  |       |         | Not Applic        | NOT AP      |
|   | QL                 | *****               | *****        |         | *****                    | *****         | *****         |       |         |                   |             |

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.



# Surface Water Discharge Monitoring Report

PI 46815

PERMIT NUMBER:

MONITORED LOCATION:

MONITORING PERIOD:

FACILITY NAME:

NJ0025411

461C DSN 461C - DSW interna

11/1/2013 TO 11/30/2013

HOPE CREEK GENERATING STATION

| PARAMETER   |                    | QUANTITY OR LOADING |               | UNITS | QUALITY OR CONCENTRATION |               |              | UNITS | NO. EX. | FREQ. OF ANALYSIS | SAMPLE TYPE |
|---|--------------------|---------------------|---------------|-------|--------------------------|---------------|--------------|-------|---------|-------------------|-------------|
| Flow, In Conduit or Thru Treatment Plant<br>50050 1<br>Effluent Gross Value | SAMPLE MEASUREMENT | 0.058               | 0.110         | MGD   | *****                    | *****         | *****        | ***** | Ø       | Continuous        | Meter       |
|   | PERMIT REQUIREMENT | REPORT 01MOAV       | REPORT 01DAMX |       | *****                    | *****         | *****        |       |         | Continuous        | METER       |
|   | QL                 | *****               | *****         |       | *****                    | *****         | *****        |       |         |                   |             |
| Solids, Total Suspended<br>00530 1<br>Effluent Gross Value                  | SAMPLE MEASUREMENT | *****               | *****         | ***** | *****                    | 3             | 3            | MG/L  | Ø       | 1/month           | COMPOS      |
|   | PERMIT REQUIREMENT | *****               | *****         |       | *****                    | 30 01MOAV     | 100 01DAMX   |       |         | 1/Month           | COMPOS      |
|   | QL                 | *****               | *****         |       | *****                    | *****         | *****        |       |         |                   |             |
| Petrol Hydrocarbons, Total Recoverable<br>45501 1<br>Effluent Gross Value   | SAMPLE MEASUREMENT | *****               | *****         | ***** | *****                    | <5            | <5           | MG/L  | Ø       | 2/month           | Grab        |
|   | PERMIT REQUIREMENT | *****               | *****         |       | *****                    | 10 01MOAV     | 15 01DAMX    |       |         | 2/Month           | GRAB        |
|   | QL                 | *****               | *****         |       | *****                    | *****         | *****        |       |         |                   |             |
| Carbon, Tot Organic (TOC)<br>00680 1<br>Effluent Gross Value                | SAMPLE MEASUREMENT | *****               | *****         | ***** | *****                    | 9             | 9            | MG/L  | Ø       | 1/month           | COMPOS      |
|   | PERMIT REQUIREMENT | *****               | *****         |       | *****                    | REPORT 01MOAV | 50 01DAMX    |       |         | 1/Month           | COMPOS      |
|   | QL                 | *****               | *****         |       | *****                    | *****         | *****        |       |         |                   |             |
| Lab Certification #<br>99999 99<br>Lab                                      | SAMPLE MEASUREMENT | 17451               | PA166         |       | 06005                    | 03036         | PA010        |       |         |                   |             |
|   | PERMIT REQUIREMENT | REPORT Lab #        | REPORT Lab #  |       | REPORT Lab #             | REPORT Lab #  | REPORT Lab # |       |         | Not Applic        | NOT AP      |
|   | QL                 | *****               | *****         |       | *****                    | *****         | *****        |       |         |                   |             |

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.

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

PI 46815

| NJPDES PERMIT    | MONITORING PERIOD |     |      |    |       |     | MONITORED LOCATION: |                                       |
|------------------|-------------------|-----|------|----|-------|-----|---------------------|---------------------------------------|
| <b>NJ0025411</b> | Month             | Day | Year | To | Month | Day | Year                | <b>462B - DSN 462B - DSW Internal</b> |
|                  | 11                | 1   | 2013 |    | 11    | 30  | 2013                |                                       |

**PERMITTEE:**

PSE&G NUCLEAR LLC  
PO BOX 236 – ALLOWAY CREEK NECK RD  
HANCOCKS BRIDGE, NJ 08038

**LOCATION OF ACTIVITY:**

HOPE CREEK GENERATING STATION  
ARTIFICIAL ISLAND  
FOOT OF BUTTONWOOD RD  
LOWER ALLOWAYS CREEK, NJ 08038

**REPORT RECIPIENT:**

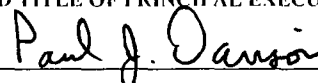
PSE&G  
TRAVIS ZIGO  
PO BOX 236 / H15  
HANCOCKS BRIDGE, NJ 08038

**REGION / COUNTY:** Southern / Salem County

**CHECK IF APPLICABLE:**    ☐ No Discharge this Monitoring Period    ☐ Monitoring Report Comments Attached

**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 that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of 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.

|   |              |
|---|--------------|
| Paul J. Davison, Site Vice President- Hope Creek                                    | N/A          |
|  | 12/23/13     |
| Paul J. Davison   | 856-339-1555 |

**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**                      **AREA CODE/PHONE 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 reviewed the attached discharge monitoring reports.

|     |     |     |
|-----|-----|-----|
| N/A | N/A | N/A |
| N/A | N/A | N/A |

**NAME AND TITLE**                      **SIGNATURE**                      **DATE**                      **AREA CODE/PHONE NUMBER**

# Surface Water Discharge Monitoring Report

PI 46815

PERMIT NUMBER: NJ0025411
 MONITORED LOCATION: 462B DSN 462B - DSW Intern
 MONITORING PERIOD: 11/1/2013 TO 11/30/2013
 FACILITY NAME: HOPE CREEK GENERATING STATION

| PARAMETER   |                    | QUANTITY OR LOADING |               | UNITS  | QUALITY OR CONCENTRATION |               |               | UNITS   | NO. EX. | FREQ. OF ANALYSIS | SAMPLE TYPE |
|---|--------------------|---------------------|---------------|--------|--------------------------|---------------|---------------|---------|---------|-------------------|-------------|
| Flow, In Conduit or Thru Treatment Plant<br>50050 1<br>Effluent Gross Value | SAMPLE MEASUREMENT | 0.021               | 0.030         | MGD    | *****                    | *****         | *****         | *****   | 0       | Continuous        | Meter       |
|   | PERMIT REQUIREMENT | REPORT 01MOAV       | REPORT 01DAMX |        | *****                    | *****         | *****         |         |         | Continuous        | METER       |
|   | QL                 | *****               | *****         |        | *****                    | *****         | *****         |         |         |                   |             |
| BOD, 5-Day (20 oC)<br>00310 G<br>Raw Sew/influent                           | SAMPLE MEASUREMENT | *****               | *****         | *****  | *****                    | 430           | 430           | MG/L    | 0       | 1/month           | Compos      |
|   | PERMIT REQUIREMENT | *****               | *****         |        | *****                    | REPORT 01MOAV | REPORT 01DAMX |         |         | 1/Month           | COMPOS      |
|   | QL                 | *****               | *****         |        | *****                    | *****         | *****         |         |         |                   |             |
| BOD, 5-Day (20 oC)<br>00310 1<br>Effluent Gross Value                       | SAMPLE MEASUREMENT | 1                   | 1             | KG/DAY | *****                    | 9             | 9             | 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)<br>00310 K<br>Percent Removal                            | SAMPLE MEASUREMENT | *****               | *****         | *****  | 97.9                     | *****         | *****         | PERCENT | 0       | 1/month           | Calctd      |
|   | PERMIT REQUIREMENT | *****               | *****         |        | 87.5 01MOAVMN            | *****         | *****         |         |         | 1/Month           | CALCTD      |
|   | QL                 | *****               | *****         |        | *****                    | *****         | *****         |         |         |                   |             |
| Solids, Total Suspended<br>00530 G<br>Raw Sew/influent                      | SAMPLE MEASUREMENT | *****               | *****         | *****  | *****                    | 403           | 403           | MG/L    | 0       | 1/month           | Compos      |
|   | PERMIT REQUIREMENT | *****               | *****         |        | *****                    | REPORT 01MOAV | REPORT 01DAMX |         |         | 1/Month           | COMPOS      |
|   | QL                 | *****               | *****         |        | *****                    | *****         | *****         |         |         |                   |             |
| Solids, Total Suspended<br>00530 1<br>Effluent Gross Value                  | SAMPLE MEASUREMENT | *****               | *****         | *****  | *****                    | 15            | 15            | MG/L    | 0       | 1/month           | Compos      |
|   | PERMIT REQUIREMENT | *****               | *****         |        | *****                    | 30 01MOAV     | 45 01WKAV     |         |         | 1/Month           | COMPOS      |
|   | QL                 | *****               | *****         |        | *****                    | *****         | *****         |         |         |                   |             |

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.

# Surface Water Discharge Monitoring Report

PI 46815

PERMIT NUMBER: NJ0025411 MONITORED LOCATION: 462B DSN 462B - DSW Interna MONITORING PERIOD: 11/1/2013 TO 11/30/2013 FACILITY NAME: HOPE CREEK GENERATING STATION

| PARAMETER                      |                    | QUANTITY OR LOADING |                 | UNITS | QUALITY OR CONCENTRATION |                  |                  | UNITS   | NO. EX. | FREQ. OF ANALYSIS | SAMPLE TYPE |
|--------------------------------|--------------------|---------------------|-----------------|-------|--------------------------|------------------|------------------|---------|---------|-------------------|-------------|
| Solids, Total Suspended        | SAMPLE MEASUREMENT | *****               | *****           |       | 96                       | 96               | *****            |         | 0       | 1/month           | Calctd      |
| 00530 K                        | PERMIT REQUIREMENT | *****               | *****           | ***** | 85<br>01MOAVMN           | REPORT<br>01MOAV | *****            | PERCENT |         | 1/Month           | CALCTD      |
| Percent Removal                | QL                 | *****               | *****           |       | *****                    | *****            | *****            |         |         |                   |             |
| Oil and Grease                 | SAMPLE MEASUREMENT | *****               | *****           |       | *****                    | < 2              | < 2              |         | 0       | 1/month           | Grab        |
| 00556 1                        | PERMIT REQUIREMENT | *****               | *****           | ***** | *****                    | 10<br>01MOAV     | 15<br>01DAMX     | MG/L    |         | 1/Month           | GRAB        |
| Effluent Gross Value           | QL                 | *****               | *****           |       | *****                    | *****            | *****            |         |         |                   |             |
| Nitrogen, Ammonia Total (as N) | SAMPLE MEASUREMENT | *****               | *****           |       | *****                    | 5                | 5                |         | 0       | 1/month           | Compos      |
| 00610 1                        | PERMIT REQUIREMENT | *****               | *****           | ***** | *****                    | 35<br>01MOAV     | REPORT<br>01DAMX | MG/L    |         | 1/Month           | COMPOS      |
| Effluent Gross Value           | QL                 | *****               | *****           |       | *****                    | *****            | ***** 5          |         |         |                   |             |
| Enterococci                    | SAMPLE MEASUREMENT | *****               | *****           |       | *****                    | < 10             | < 10             |         | 0       | 1/month           | Grab        |
| 61211 1                        | PERMIT REQUIREMENT | *****               | *****           | ***** | *****                    | REPORT<br>01MOGE | REPORT<br>01WKGE | #/100ML |         | 1/Month           | GRAB        |
| Effluent Gross Value           | QL                 | *****               | *****           |       | *****                    | *****            | *****            |         |         |                   |             |
| Coliform, Fecal General        | SAMPLE MEASUREMENT | *****               | *****           |       | *****                    | < 10             | < 10             |         | 0       | 1/month           | Grab        |
| 74055 1                        | PERMIT REQUIREMENT | *****               | *****           | ***** | *****                    | 200<br>01MOGE    | 400<br>01WKGE    | #/100ML |         | 1/Month           | GRAB        |
| Effluent Gross Value           | QL                 | *****               | *****           |       | *****                    | *****            | *****            |         |         |                   |             |
| Lab Certification #            | SAMPLE MEASUREMENT | 17451               | PA166           |       | 06005                    | 03036            | PA010            |         |         |                   |             |
| 99999 99                       | PERMIT REQUIREMENT | REPORT<br>Lab #     | REPORT<br>Lab # |       | REPORT<br>Lab #          | REPORT<br>Lab #  | REPORT<br>Lab #  |         |         | Not Applic        | NOT AP      |
| Lab                            | QL                 | *****               | *****           |       | *****                    | *****            | *****            |         |         |                   |             |

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.

New Jersey Department of Environmental Protection  
Division of Water Quality  
**Consolidated Waste Characterization Report Submittal Form**

PI 46815

| NJPDES PERMIT    | MONITORING PERIOD |     |      |    |       |     |      | MONITORED LOCATION:            |
|------------------|-------------------|-----|------|----|-------|-----|------|--------------------------------|
| <b>NJ0025411</b> | Month             | Day | Year | To | Month | Day | Year | <b>462B - DSN 462B - DSW I</b> |
|                  | 7                 | 1   | 2013 |    | 12    | 31  | 2013 |                                |

**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

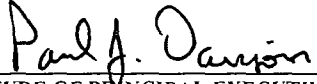
**REGION / COUNTY:** Southern / Salem County

CHECK IF APPLICABLE: ☐ No Discharge this Monitoring Period ☐ Monitoring Report Comments Attached

**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 that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of 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.

Paul J. Davison, Site Vice President – Hope Creek  
NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER, OR  
AUTHORIZED AGENT

  
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR  
AUTHORIZED AGENT

N/A  
GRADE AND REGISTRY NUMBER (IF APPLICABLE)

12/23/2013  
DATE (MONTH/DAY /YEAR)  
856-339-1555  
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 reviewed the attached discharge monitoring reports.

N/A  
NAME AND TITLE  
N/A  
DATE

N/A  
SIGNATURE  
N/A  
AREA CODE/PHONE NUMBER

# Consolidated Waste Characterization Report

PI 46815

PERMIT NUMBER: NJ0025411 MONITORED LOCATION: 462B DSN 462B - DSW Intern MONITORING PERIOD: 7/1/2013 TO 12/31/2013 FACILITY NAME: HOPE CREEK GENERATING STATION

SAMPLE DATE OF REPORT: 11/06/13

| PARAMETER   | QL       | REPORTED<br>VALUE | UNITS | REMARK<br>CODE | SAMPLE<br>TYPE |
|---|----------|-------------------|-------|----------------|----------------|
| Cyanide, Total (as CN)<br>00720 Effluent Gross Value      | RQL = 40 | <3.70             | UG/L  |                | GRAB           |
| Nickel, Total Recoverable<br>01074 Effluent Gross Value   | RQL = 10 | 4.50              | UG/L  |                | GRAB           |
| Zinc, Total Recoverable<br>01094 Effluent Gross Value     | RQL = 10 | 267               | UG/L  |                | GRAB           |
| Cadmium, Total Recoverable<br>01113 Effluent Gross Value  | RQL = 4  | 0.356             | UG/L  |                | GRAB           |
| Chromium, Total Recoverable<br>01118 Effluent Gross Value | RQL = 10 | 1.7               | UG/L  |                | GRAB           |
| Copper, Total Recoverable<br>01119 Effluent Gross Value   | RQL = 2  | 64.6              | UG/L  |                | GRAB           |
| Lab Certification #<br>99999 Lab                          |          | PA166             |       |                | NOT AP         |
| Lab Certification #<br>99999 Lab                          |          |                   |       |                | NOT AP         |
| Lab Certification #<br>99999 Lab                          |          |                   |       |                | NOT AP         |
| Lab Certification #<br>99999 Lab                          |          |                   |       |                | NOT AP         |
| Lab Certification #<br>99999 Lab                          |          |                   |       |                | NOT AP         |

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.