

KEEP PERMIT AT SITE

CONTROL NO. B- 05609

Larry Hogan  
Governor



Ben Grumbles  
Secretary

Boyd Rutherford  
Lieutenant Governor

DEPARTMENT OF THE ENVIRONMENT

Air and Radiation Administration  
1800 Washington Boulevard, Suite 720  
Baltimore, MD 21230

Construction Permit

Part 70  
 Operating Permit

PERMIT NO. 24-510-0265

DATE ISSUED December 1, 2018

PERMIT FEE To be paid in accordance  
with COMAR 26.11.02.19B

EXPIRATION DATE November 30, 2023

LEGAL OWNER & ADDRESS  
Constellation Power Source Generation, LLC  
1005 Brandon Shores Road, Suite 200  
Baltimore, MD 21226  
Attn: Mr. David Ciotti  
Senior Environmental Specialist

SITE  
Philadelphia Road Generating Station  
3914 Pulaski Highway  
Baltimore, MD 21224  
Baltimore City  
AI#5618

SOURCE DESCRIPTION

Electric Generating Station consisting of four (4) No. 2 oil fired combustion turbines.

This source is subject to the conditions described on the attached pages.

Page 1 of 40

Program Manager

Director, Air and Radiation Administration

**CONSTELLATION POWER SOURCE GENERATION, LLC  
PHILADELPHIA ROAD GENERATING STATION  
3914 PULASKI HIGHWAY, BALTIMORE MD 21224  
PERMIT NO. 24-510-0265  
PART 70 OPERATING PERMIT FACT SHEET 2018**

---

**BACKGROUND**

Constellation Philadelphia Road Generating Station (Philadelphia Road Generating Station) is an electric generating station, which generates electricity during peak load demand periods. The primary SIC for this facility is 4911.

Philadelphia Road Generating Station is located in the eastern Baltimore City at 3914 Pulaski Highway at the southwest corner of Monument and Haven Street. The facility consists of four (4) identical General Electric combustion turbines that fires No.2 fuel oil fired to generate electricity. Each combustion turbine is equipped with a single discharge stack.

The combustion turbines are each rated at 16 megawatts, and are typically operated less than 60 days per year during peak electricity demand. The combustion turbines were all installed in December 1969, prior to the NSPS applicable date of October 3, 1977, and the turbines have not been modified or reconstructed since October 3, 1977. Therefore, the combustion turbines are not subject to the NSPS standards found in 40 CFR 60 Subpart GG.

The combustion turbines are also not subject to 40 CFR Part 63, Subpart Yyyy – NESHAP for Stationary Combustion Turbines, because the Philadelphia Road Generating Station is not a major HAP source.

The Philadelphia Road Generating Station is not subject to the Title IV Acid Rain Program.

The following table summarizes the actual emissions from Philadelphia Road Generating Station based on its Annual Emission Certification Reports:

**Table 1: Actual Emissions**

| <b>Year</b> | <b>NO<sub>x</sub><br/>(TPY)</b> | <b>SO<sub>x</sub><br/>(TPY)</b> | <b>PM<sub>10</sub><br/>(TPY)</b> | <b>CO<br/>(TPY)</b> | <b>VOC<br/>(TPY)</b> | <b>Total<br/>HAP<br/>(TPY)</b> |
|-------------|---------------------------------|---------------------------------|----------------------------------|---------------------|----------------------|--------------------------------|
| 2016        | 26.73                           | 0.359                           | 0.206                            | 0.160               | 0.0206               | 0.0176                         |
| 2015        | 20.19                           | 3.164                           | 0.163                            | 0.122               | 0.0146               | 0.0132                         |
| 2014        | 66.34                           | 8.802                           | 0.520                            | 0.398               | 0.0482               | 0.0442                         |
| 2013        | 17.77                           | 4.589                           | 0.144                            | 0.106               | 0.0140               | 0.0114                         |
| 2012        | 6.88                            | 2.506                           | 0.054                            | 0.041               | 0.0054               | 0.00                           |

The major source threshold for triggering Title V permitting requirements in Baltimore City is 25 tons per year for VOC, 25 tons for NO<sub>x</sub>, and 100 tons per year for any other criteria pollutants and 10 tons for a single HAP or 25 tons per

**CONSTELLATION POWER SOURCE GENERATION, LLC  
 PHILADELPHIA ROAD GENERATING STATION  
 3914 PULASKI HIGHWAY, BALTIMORE MD 21224  
 PERMIT NO. 24-510-0265  
 PART 70 OPERATING PERMIT FACT SHEET 2018**

year for total HAPS. Since the actual NO<sub>x</sub> emission from the facility are greater than the major source threshold, Philadelphia Road Generating Station is required to obtain a Title V – Part 70 Operating Permit under COMAR 26.11.03.01.

As a major source of NO<sub>x</sub>, this facility is also subject to requirements of Reasonably Available Control Technology (RACT) for NO<sub>x</sub> found in COMAR 26.11.09.08.

On October 17, 2017, the Department received the Philadelphia Road Generating Station’s Part 70 renewal permit application. An administrative completeness review was conducted and the application was deemed to be administratively complete. A completeness determination letter was sent to Philadelphia Road Generating Station on February 28, 2018 granting Philadelphia Road Generating Station an application shield.

**GREENHOUSE GAS (GHG) EMISSIONS**

Philadelphia Road Generating Station emits the following greenhouse gases (GHGs) related to Clean Air Act requirements: carbon dioxide, methane, and nitrous oxide. These GHGs originate from the fuel oil combustion in the CTs. The facility is not a major source of GHG emissions and has not triggered Prevention of Significant Deterioration (PSD) requirements for GHG emissions; therefore, there are no applicable GHG Clean Air Act requirements.

The following table summarizes the actual emissions from Philadelphia Road Generating Station based on its Annual Emission Certification Reports:

**Table 2: Greenhouse Gases Emissions Summary**

| <b>GHG</b>                            | <b>Conversion factor</b> | <b>2016<br/>tpy CO<sub>2</sub>e</b> | <b>2015<br/>tpy CO<sub>2</sub>e</b> | <b>2014<br/>tpy CO<sub>2</sub>e</b> |
|---------------------------------------|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Carbon dioxide<br>CO <sub>2</sub>     | 1                        | 7,904.498                           | 5,970.252                           | 19,615.186                          |
| Methane CH <sub>4</sub>               | 25                       | 0.319                               | 0.241                               | 0.01                                |
| Nitrous Oxide<br>N <sub>2</sub> O     | 298                      | 0.0658                              | 0.0487                              | 0.0                                 |
| <b>Total GHG<br/>CO<sub>2</sub>eq</b> |                          | <b>7,904.88</b>                     | <b>5,970.54</b>                     | <b>19,615.20</b>                    |

**CONSTELLATION POWER SOURCE GENERATION, LLC  
 PHILADELPHIA ROAD GENERATING STATION  
 3914 PULASKI HIGHWAY, BALTIMORE MD 21224  
 PERMIT NO. 24-510-0265  
 PART 70 OPERATING PERMIT FACT SHEET 2018**

**COMPLIANCE ASSURANCE MONITORING**

CAM is intended to provide a reasonable assurance of compliance with applicable requirements under the Clean Air Act for large emission units that rely on air pollution control (APC) equipment to achieve compliance. The CAM approach establishes monitoring for the purpose of: (1) documenting continued operation of the control measures within ranges of specified indicators of performance (such as emissions, control device parameters, and process parameters) that are designed to provide a reasonable assurance of compliance with applicable requirements; (2) indicating any excursions from these ranges; and (3) responding to the data so that the cause or causes of the excursions are corrected. In order for a unit for a unit to be subject to CAM, the unit must be located at a major source, be subject to an emission limitation or standard; use a control device to achieve compliance; have post-control emissions of at least 100% of the major source amount (for initial CAM submittals); and must not otherwise be exempt from CAM. Applicability determinations are made on a pollutant-by-pollutant basis for each emission unit.

Philadelphia Road Generating Station conducted a Compliance Assurance Monitoring (CAM) analysis for the facility and determined that the facility is not subject to the (CAM) Rule 40 CFR Subpart 64.

**EMISSION UNIT IDENTIFICATION**

Philadelphia Road Generating Station has identified the following emission units as being subject to Title V permitting requirements and having applicable requirements.

**Table 3: Emission Unit Identification**

| <b>Emissions Unit Number</b> | <b>MDE Registration Number</b> | <b>Emissions Unit Name and Description</b>  | <b>Date of Installation</b> |
|------------------------------|--------------------------------|---|-----------------------------|
| PR-Unit1 CT                  | 510-4-0431                     | One (1) General Electric Combustion turbine fired with No. 2 fuel oil. The unit has a maximum heat input of 258 million Btu per hour and is used to generate electricity. Emissions from the unit are discharged through a single stack | Dec 1969                    |

**CONSTELLATION POWER SOURCE GENERATION, LLC  
 PHILADELPHIA ROAD GENERATING STATION  
 3914 PULASKI HIGHWAY, BALTIMORE MD 21224  
 PERMIT NO. 24-510-0265  
 PART 70 OPERATING PERMIT FACT SHEET 2018**

| <b>Emissions Unit Number</b> | <b>MDE Registration Number</b> | <b>Emissions Unit Name and Description</b>   | <b>Date of Installation</b> |
|------------------------------|--------------------------------|--|-----------------------------|
|                              |                                | (Emission Point: PR Unit CT1-EP1).   |                             |
| PR Unit 2 CT                 | 510-4-0432                     | One (1) General Electric Combustion turbine fired with No. 2 fuel oil. The unit has a maximum heat input of 258 million Btu per hour and is used to generate electricity. Emissions from the unit are discharged through a single stack (Emission Point: PR Unit CT2-EP1). | Dec 1969                    |
| PR-Unit 3 CT                 | 510-4-0433                     | One (1) General Electric Combustion turbine fired with No. 2 fuel oil. The unit has a maximum heat input of 258 million Btu per hour and is used to generate electricity. Emissions from the unit are discharged through a single stack (Emission Point: PR Unit CT3-EP1). | Dec 1969                    |
| PR-Unit 4 CT                 | 510-4-0434                     | One (1) General Electric Combustion turbine fired with No. 2 fuel oil. The unit has a maximum heat input of 258 million Btu per hour and is used to generate electricity. Emissions from the unit are discharged through a single stack (Emission Point: PR Unit CT4-EP1). | Dec 1969                    |

**CONSTELLATION POWER SOURCE GENERATION, LLC  
PHILADELPHIA ROAD GENERATING STATION  
3914 PULASKI HIGHWAY, BALTIMORE MD 21224  
PERMIT NO. 24-510-0265  
PART 70 OPERATING PERMIT FACT SHEET 2018**

**AN OVERVIEW OF THE PART 70 PERMIT**

The Fact Sheet is an informational document. If there are any discrepancies between the Fact Sheet and the Part 70 permit, the Part 70 permit is the enforceable document.

Section I of the Part 70 Permit contains a brief description of the facility and an inventory list of the emissions units for which applicable requirements are identified in Section IV of the permit.

Section II of the Part 70 Permit contains the general requirements that relate to administrative permit actions. This section includes the procedures for renewing, amending, reopening, and transferring permits, the relationship to permits to construct and approvals, and the general duty to provide information and to comply with all applicable requirements.

Section III of the Part 70 Permit contains the general requirements for testing, record keeping and reporting; and requirements that affect the facility as a whole, such as open burning, air pollution episodes, particulate matter from construction and demolition activities, asbestos provisions, ozone depleting substance provisions, general conformity, and acid rain permit. This section includes the requirement to report excess emissions and deviations, to submit an annual emissions certification report and an annual compliance certification report, and results of sampling and testing.

Section IV of the Part 70 Permit identifies the emissions standards, emissions limitations, operational limitations, and work practices applicable to each emissions unit located at the facility. For each standard, limitation, and work practice, the permit identifies the basis upon which the Permittee will demonstrate compliance. The basis will include testing, monitoring, record keeping, and reporting requirements. The demonstration may include one or more of these methods.

Section V of the Part 70 Permit contains a list of insignificant activities. These activities emit very small quantities of regulated air pollutants and do not require a permit to construct or registration with the Department. For insignificant activities that are subject to a requirement under the Clean Air Act, the requirement is listed under the activity.

**CONSTELLATION POWER SOURCE GENERATION, LLC  
 PHILADELPHIA ROAD GENERATING STATION  
 3914 PULASKI HIGHWAY, BALTIMORE MD 21224  
 PERMIT NO. 24-510-0265  
 PART 70 OPERATING PERMIT FACT SHEET 2018**

Section VI of the Part 70 Permit contains State-only enforceable requirements. Section VI identifies requirements that are not based on the Clean Air Act, but solely on Maryland air pollution regulations. These requirements generally relate to the prevention of nuisances and implementation of Maryland's Air Toxics Program.

**REGULATORY REVIEW/TECHNICAL REVIEW/COMPLIANCE  
 METHODOLOGY**

**Emission Unit Number(s): Combustion Turbines**

**PR-Unit 1 CT, PR-Unit 2 CT, PR-Unit 3 CT, PR-Unit 4 CT**

Four (4) General Electric Combustion turbines fired with No. 2 fuel oil and each has a maximum heat input of 258 million Btu per hour.. [510-4-0431 thru 510-4-0434]

Compliance Status:

Per full compliance inspection on June 22, 2017, none of the combustions turbines were in operation. The six-month reports were received and no deviations were reported. Based on the CY2016 Emission Certification Report, the CTs operated as follows:

| <b>Emission Units</b> | <b>Operating Hours</b> | <b>Capacity Factor (%)</b> |
|-----------------------|------------------------|----------------------------|
| PR-Unit 1-CT          | 80.01                  | 0.36                       |
| PR-Unit 2-CT          | 126.79                 | 1.14                       |
| PR-Unit 3-CT          | 124.21                 | 1.20                       |
| PR-Unit 4-CT          | 116.13                 | 1.14                       |

A. Control of Visible Emissions

**COMAR 26.11.09.05 - Visible Emissions.**

**"A. Fuel Burning Equipment.**

(2) Areas III and IV. In Areas III and IV, a person may not cause or permit the discharge of emissions from any fuel burning equipment, other than water in an uncombined form, which is visible to human observers except that, for the purpose of demonstrating compliance using COM data, emissions that are visible to a human observer are those that are equal to or greater than 10 percent opacity.

(3) Exceptions. Section A(1) and (2) of this regulation do not apply to emissions during load changing, soot blowing, startup, or adjustments or occasional cleaning of control equipment if:

(a) The visible emissions are not greater than 40 percent opacity; and

**CONSTELLATION POWER SOURCE GENERATION, LLC  
PHILADELPHIA ROAD GENERATING STATION  
3914 PULASKI HIGHWAY, BALTIMORE MD 21224  
PERMIT NO. 24-510-0265  
PART 70 OPERATING PERMIT FACT SHEET 2018**

(b) The visible emissions do not occur for more than 6 consecutive minutes in any sixty minute period.”

**Compliance Demonstration**

The Permittee shall:

- (a) properly operate and maintain the combustion turbines in a manner to prevent visible emissions;
- (b) verify no visible emissions when burning No.2 fuel oil. An observer shall perform an EPA Reference Method 9 observation of stack emissions for a 6-minute period once for each 168 hours a combustion turbine operates.

The Permittee shall perform the following if visible emissions are observed:

- (a) inspect combustion turbine operations;
- (b) perform all necessary adjustments and/or repairs to the combustion turbine within 48 operating hours so that visible emissions are eliminated;
- (c) document in writing the results of the inspections, adjustments and/or repairs to the combustion turbine; and
- (d) if the required adjustments and/or repairs had not eliminated the visible emissions within the stipulated 48 operating hours, the Permittee shall perform a Method 9 observation once daily for 18 minutes until corrective action has eliminated the visible emissions.

The Permittee shall maintain for at least five years the following:

- (a) an operation manual and preventive maintenance plan;
- (b) records of maintenance performed on the combustion turbines that relate to preventing visible emissions;
- (c) log of visible emission observations performed and make it available to the Department's representative upon request, and
- (d) record of the hours that No. 2 fuel oil is burned.

**[Reference: COMAR 26.11.03.06C]**

The Permittee shall report incidents of visible emissions in accordance with Section III Condition 4 “Report of Excess Emissions and Deviations” **[Reference: COMAR 26.11.01.07 & COMAR 26.11.03.06C(7)]**

---

**B. Control of Sulfur Oxides**

**COMAR 26.11.09.07: Control of Sulfur Oxides From Fuel Burning Equipment.**

“A. Sulfur Content Limitations for Fuel. A person may not burn, sell, or make available for sale any fuel with a sulfur content by weight in excess of or which otherwise exceeds the following limitations:

- (2) In Areas III and IV:
  - (a) All solid fuels, 1.0 percent;
  - (b) **Distillate fuel oils, 0.3 percent;**
  - (c) Residual fuel oils, 1.0 percent.”



**CONSTELLATION POWER SOURCE GENERATION, LLC  
PHILADELPHIA ROAD GENERATING STATION  
3914 PULASKI HIGHWAY, BALTIMORE MD 21224  
PERMIT NO. 24-510-0265  
PART 70 OPERATING PERMIT FACT SHEET 2018**

**Compliance Demonstration**

The Permittee shall obtain a certification from the fuel supplier indicating that the fuel oil is in compliance with the limitation on the sulfur content of the fuel oil or obtain sulfur in fuel analyses of oil that is representative of the oil burned.

**[Reference: COMAR 26.11.03.06C]**

The Permittee shall maintain records of fuel supplier's certification or sulfur in fuel analyses and shall make records available to the Department upon request. The Permittee shall report fuel supplier certification or a copy of the sulfur in fuel analyses to the Department upon request. **[Reference: COMAR 26.11.09.07C].**

---

C. Control of Nitrogen Oxides:

**COMAR 26.11.09.08G - Requirements for Fuel-Burning Equipment with a Capacity Factor of 15 Percent or Less, and Combustion Turbines with a Capacity Factor Greater than 15 Percent.**

“(1) A person who owns or operates fuel-burning equipment with a capacity factor (as defined in 40 CFR Part 72.2) of 15 percent or less shall:

(a) Provide certification of the capacity factor of the equipment to the Department in writing;

(b) For fuel-burning equipment that operates more than 500 hours during a calendar year, perform a combustion analysis and optimize combustion at least once annually;

(c) Maintain the results of the combustion analysis at the site for at least 2 years and make these results available to the Department and the EPA upon request;

(d) *Not applicable*

(e) *Not applicable*

(2) A person who owns or operates a combustion turbine with a capacity factor greater than 15 percent shall meet an hourly average NO<sub>x</sub> emission rate of not more than 42 ppm when burning gas or 65 ppm when burning fuel oil (dry volume at 15 percent oxygen) or meet applicable Prevention of Significant Deterioration limits, whichever is more restrictive. “

**Compliance Demonstration**

The Permittee shall perform a combustion analysis and optimize combustion at least once annually when the turbines operate for more than 500 hours in a calendar year. **[Reference: COMAR 26.11.09.08G(1)(b)].** If the Permittee operates a turbine in excess of 15 percent capacity factor, the Permittee shall demonstrate compliance with the 65-ppm limit by performing an EPA Reference Method Test within 120 days after exceeding the 15 percent capacity factor. The Permittee shall submit a test protocol to the Department for approval at least 30

**CONSTELLATION POWER SOURCE GENERATION, LLC  
PHILADELPHIA ROAD GENERATING STATION  
3914 PULASKI HIGHWAY, BALTIMORE MD 21224  
PERMIT NO. 24-510-0265  
PART 70 OPERATING PERMIT FACT SHEET 2018**

days prior to the proposed test date. The Permittee shall calculate the capacity factor of each combustion turbine at the end of each month. **[Reference: COMAR 26.11.03.06C]**.

The Permittee shall:

- (1) Maintain the results of the combustion analysis performed when the hours of operation exceeds 500 hours. **[Reference: COMAR 26.11.09.08G(1)(c)]**.
- (2) Retain records of training program attendance for each operator for at least 5 years. **[Reference: COMAR 26.11.09.08G(1)(e)]**.
- (3) Retain records of the calculated capacity factors. **[Reference: COMAR 26.11.03.06C]**.

The Permittee shall:

- (1) Provide certification of the capacity factor of the equipment to the Department in writing as part of the April 1 certification report. **[Reference: COMAR 26.11.09.08G(1)(a) & COMAR 26.11.03.06C]**
- (2) Submit a record of the training program attendance for each operator to the Department upon request. **[Reference: COMAR 26.11.09.08G(1)(e)]**.

---

**D. Operational Limitation:**

The Permittee shall only burn No. 2 fuel oil unless the Permittee applies for and receives an approval or permit from the Department to burn an alternate fuel. **[Reference: COMAR 26.11.02.09A]**.

**Compliance Demonstration**

The Permittee shall maintain a record of the hours of operation for each combustion turbine. The Permittee shall report the monthly hours of operation for the combustion turbines to the Department in the annual emission certification report due on April 1 of each year. **[Reference: COMAR 26.11.03.06C]**

---

**COMPLIANCE SCHEDULE**

Philadelphia Road Generating Station is currently in compliance with all applicable air quality regulations.

**TITLE IV – ACID RAIN**

Philadelphia Road Generating Station is not subject to the Acid Rain Program requirements.

**CONSTELLATION POWER SOURCE GENERATION, LLC  
PHILADELPHIA ROAD GENERATING STATION  
3914 PULASKI HIGHWAY, BALTIMORE MD 21224  
PERMIT NO. 24-510-0265  
PART 70 OPERATING PERMIT FACT SHEET 2018**

**TITLE VI – OZONE DEPLETING SUBSTANCES**

Philadelphia Road Generating Station is complying with the standards for recycling and emission reductions pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B.

**SECTION 112(r) – ACCIDENTAL RELEASE**

Philadelphia Road Generating Station is not subject to the requirements of Section 112(r).

**PERMIT SHIELD**

The Philadelphia Road Generating Station facility requested that a permit shield be expressly included in the Permittee's Part 70 permit. Permit shields are granted on an emission unit by emission unit basis. If an emission unit is covered by a permit shield, a permit shield statement will follow the emission unit table in Section IV - Plant Specific Conditions of the permit. In this case, a permit shield was granted for each emission unit covered by the permit.

**INSIGNIFICANT ACTIVITIES**

This section provides a list of insignificant emissions units that were reported in the Title V permit application. The applicable Clean Air Act requirements, if any, are listed below the insignificant activity.

- (1) No.   2   Stationary internal combustion engines with an output less than 500 brake horsepower (373 kilowatts) and which are not used to generate electricity for sale or for peak or load shaving;

The *affected units* are subject to the following requirements:

- (A) COMAR 26.11.09.05E(2), Emissions During Idle Mode:  
The Permittee may not cause or permit the discharge of emissions from any engine, operating at idle, greater than 10 percent opacity.

**CONSTELLATION POWER SOURCE GENERATION, LLC  
PHILADELPHIA ROAD GENERATING STATION  
3914 PULASKI HIGHWAY, BALTIMORE MD 21224  
PERMIT NO. 24-510-0265  
PART 70 OPERATING PERMIT FACT SHEET 2018**

(B) COMAR 26.11.09.05E(3), Emissions During Operating Mode: The Permittee may not cause or permit the discharge of emissions from any engine, operating at other than idle conditions, greater than 40 percent opacity.

(C) Exceptions:

(i) COMAR 26.11.09.05E(2) does not apply for a period of 2 consecutive minutes after a period of idling of 15 consecutive minutes for the purpose of clearing the exhaust system.

(ii) COMAR 26.11.09.05E(2) does not apply to emissions resulting directly from cold engine start-up and warm-up for the following maximum periods:

(a) Engines that are idled continuously when not in service: 30 minutes

(b) all other engines: 15 minutes.

(iii) COMAR 26.11.09.05E(2) & (3) do not apply while maintenance, repair or testing is being performed by qualified mechanics.

(2) Containers, reservoirs, or tanks used exclusively for:

(a) ✓ Storage of Numbers 1, 2, 4, 5, and 6 fuel oil and aviation jet engine fuel;

(b) No. 4 Storage of lubricating oils;

(c) No. 2 The storage of VOC normally used as solvents, diluents, thinners, inks, colorants, paints, lacquers, enamels, varnishes, liquid resins, or other surface coatings and having individual capacities of 2,000 gallons (7.6 cubic meters) or less;

(3) ✓ Comfort air conditioning subject to requirements of Title VI of the Clean Air Act;

**CONSTELLATION POWER SOURCE GENERATION, LLC  
PHILADELPHIA ROAD GENERATING STATION  
3914 PULASKI HIGHWAY, BALTIMORE MD 21224  
PERMIT NO. 24-510-0265  
PART 70 OPERATING PERMIT FACT SHEET 2018**

**STATE ONLY ENFORCEABLE REQUIREMENTS**

This section of the permit contains state-only enforceable requirements. The requirements in this section will not be enforced by the U.S. Environmental Protection Agency. The requirements in this section are not subject to COMAR 26.11.03 10 - Public Petitions for Review to EPA Regarding Part 70 Permits.

1. Applicable Regulations:

**COMAR 26.11.06.08 - Nuisance**

“An installation or premises may not be operated or maintained in such a manner that a nuisance or air pollution is created. Nothing in this regulation relating to the control of emissions may in any manner be constructed as authorizing or permitting the creation of, or maintenance of, nuisance or air pollution.”

**COMAR 26.11.06.09 - Odors**

“A person may not cause or permit the discharge into the atmosphere of gases, vapors, or odors beyond the property line in such a manner that a nuisance or air pollution is created.”

2. Record Keeping and Reporting:

The Permittee shall submit to the Department, by April 1 of each year during the term of this permit, a written certification of the results of an analysis of emissions of toxic air pollutants from the Permittee’s facility during the previous calendar year. The analysis shall include either:

- (a) a statement that previously submitted compliance demonstrations for emissions of toxic air pollutants remain valid; or
- (b) a revised compliance demonstration, developed in accordance with requirements included under COMAR 26.11.15 & 16, that accounts for changes in operations, analytical methods, emissions determinations, or other factors that have invalidated previous demonstrations.

**CONSTELLATION POWER SOURCE GENERATION, LLC  
 PHILADELPHIA ROAD GENERATING STATION  
 3914 PULASKI HIGHWAY, BALTIMORE, MD 21224  
 2018 PART 70 OPERATING PERMIT NO. 24-510-0265**

|                    |  |           |
|--------------------|--|-----------|
| <b>SECTION I</b>   | <b>SOURCE IDENTIFICATION</b>                         | <b>4</b>  |
| 1.                 | DESCRIPTION OF FACILITY                              | 4         |
| 2.                 | FACILITY INVENTORY LIST                              | 5         |
| <b>SECTION II</b>  | <b>GENERAL CONDITIONS</b>                            | <b>6</b>  |
| 1.                 | DEFINITIONS  | 6         |
| 2.                 | ACRONYMS   | 6         |
| 3.                 | EFFECTIVE DATE                                       | 7         |
| 4.                 | PERMIT EXPIRATION                                    | 7         |
| 5.                 | PERMIT RENEWAL                                       | 7         |
| 6.                 | CONFIDENTIAL INFORMATION                             | 8         |
| 7.                 | PERMIT ACTIONS                                       | 8         |
| 8.                 | PERMIT AVAILABILITY                                  | 9         |
| 9.                 | REOPENING THE PART 70 PERMIT FOR CAUSE BY THE EPA    | 9         |
| 10.                | TRANSFER OF PERMIT                                   | 9         |
| 11.                | REVISION OF PART 70 PERMITS – GENERAL CONDITIONS     | 9         |
| 12.                | SIGNIFICANT PART 70 OPERATING PERMIT MODIFICATIONS   | 10        |
| 13.                | MINOR PERMIT MODIFICATIONS                           | 11        |
| 14.                | ADMINISTRATIVE PART 70 OPERATING PERMIT AMENDMENTS   | 14        |
| 15.                | OFF-PERMIT CHANGES TO THIS SOURCE                    | 16        |
| 16.                | ON-PERMIT CHANGES TO SOURCES                         | 17        |
| 17.                | FEE PAYMENT  | 19        |
| 18.                | REQUIREMENTS FOR PERMITS-TO-CONSTRUCT AND APPROVALS  | 19        |
| 19.                | CONSOLIDATION OF PROCEDURES FOR PUBLIC PARTICIPATION | 20        |
| 20.                | PROPERTY RIGHTS                                      | 21        |
| 21.                | SEVERABILITY   | 21        |
| 22.                | INSPECTION AND ENTRY                                 | 21        |
| 23.                | DUTY TO PROVIDE INFORMATION                          | 22        |
| 24.                | COMPLIANCE REQUIREMENTS                              | 22        |
| 25.                | CREDIBLE EVIDENCE                                    | 23        |
| 26.                | NEED TO HALT OR REDUCE ACTIVITY NOT A DEFENSE        | 23        |
| 27.                | CIRCUMVENTION  | 23        |
| 28.                | PERMIT SHIELD  | 23        |
| 29.                | ALTERNATE OPERATING SCENARIOS                        | 24        |
| <b>SECTION III</b> | <b>PLANT WIDE CONDITIONS</b>                         | <b>25</b> |
| 1.                 | PARTICULATE MATTER FROM CONSTRUCTION AND DEMOLITION  | 25        |
| 2.                 | OPEN BURNING   | 25        |
| 3.                 | AIR POLLUTION EPISODE                                | 25        |
| 4.                 | REPORT OF EXCESS EMISSIONS AND DEVIATIONS            | 25        |
| 5.                 | ACCIDENTAL RELEASE PROVISIONS                        | 26        |
| 6.                 | GENERAL TESTING REQUIREMENTS                         | 27        |
| 7.                 | EMISSIONS TEST METHODS                               | 27        |
| 8.                 | EMISSIONS CERTIFICATION REPORT                       | 27        |
| 9.                 | COMPLIANCE CERTIFICATION REPORT                      | 29        |
| 10.                | CERTIFICATION BY RESPONSIBLE OFFICIAL                | 29        |
| 11.                | SAMPLING AND EMISSIONS TESTING RECORD KEEPING        | 30        |

**CONSTELLATION POWER SOURCE GENERATION, LLC  
PHILADELPHIA ROAD GENERATING STATION  
3914 PULASKI HIGHWAY, BALTIMORE, MD 21224  
2018 PART 70 OPERATING PERMIT NO. 24-510-0265**

|                   |   |           |
|-------------------|---|-----------|
| 12.               | GENERAL RECORDKEEPING .....                   | 30        |
| 13.               | GENERAL CONFORMITY .....                      | 31        |
| 14.               | ASBESTOS PROVISIONS .....                     | 31        |
| 15.               | OZONE DEPLETING REGULATIONS.....              | 31        |
| 16.               | ACID RAIN PERMIT .....                        | 32        |
| <b>SECTION IV</b> | <b>PLANT SPECIFIC CONDITIONS.....</b>         | <b>33</b> |
| <b>SECTION V</b>  | <b>INSIGNIFICANT ACTIVITIES .....</b>         | <b>38</b> |
| <b>SECTION VI</b> | <b>STATE-ONLY ENFORCEABLE CONDITIONS.....</b> | <b>40</b> |

**CONSTELLATION POWER SOURCE GENERATION, LLC  
PHILADELPHIA ROAD GENERATING STATION  
3914 PULASKI HIGHWAY, BALTIMORE, MD 21224  
2018 PART 70 OPERATING PERMIT NO. 24-510-0265**

**SECTION I SOURCE IDENTIFICATION**

**1. DESCRIPTION OF FACILITY**

Constellation Philadelphia Road Generating Station (Philadelphia Road Generating Station) is an electric generating station, which generates electricity during peak load demand periods. The primary SIC for this facility is 4911.

Philadelphia Road Generating Station is located in the eastern Baltimore City at 3914 Pulaski Highway at the southwest corner of Monument and Haven Street. The facility consists of four (4) identical General Electric combustion turbines that fires No.2 fuel oil fired to generate electricity.

The combustion turbines are each rated at 16 megawatts, and are typically operated less than 60 days per year during peak electricity demand. The combustion turbines were all installed in December 1969, prior to the NSPS applicable date of October 3, 1977, and the turbines have not been modified or reconstructed since October 3, 1977. Therefore, the combustion turbines are not subject to the NSPS standards found in 40 CFR 60 Subpart GG. Each combustion turbine is equipped with a single discharge stack.

The Philadelphia Road Station is not subject to the Title IV Acid Rain Program.



**CONSTELLATION POWER SOURCE GENERATION, LLC  
 PHILADELPHIA ROAD GENERATING STATION  
 3914 PULASKI HIGHWAY, BALTIMORE, MD 21224  
 2018 PART 70 OPERATING PERMIT NO. 24-510-0265**

**2. FACILITY INVENTORY LIST**

| <b>Emissions Unit Number</b> | <b>MDE Registration Number</b> | <b>Emissions Unit Name and Description</b>   | <b>Date of Installation</b> |
|------------------------------|--------------------------------|--|-----------------------------|
| PR-Unit1 CT                  | 510-4-0431                     | One (1) General Electric Combustion turbine fired with No. 2 fuel oil. The unit has a maximum heat input of 258 million Btu per hour and is used to generate electricity. Emissions from the unit are discharged through a single stack (Emission Point: PR Unit CT1-EP1). | Dec 1969                    |
| PR Unit 2 CT                 | 510-4-0432                     | One (1) General Electric Combustion turbine fired with No. 2 fuel oil. The unit has a maximum heat input of 258 million Btu per hour and is used to generate electricity. Emissions from the unit are discharged through a single stack (Emission Point: PR Unit CT2-EP1). | Dec 1969                    |
| PR-Unit 3 CT                 | 510-4-0433                     | One (1) General Electric Combustion turbine fired with No. 2 fuel oil. The unit has a maximum heat input of 258 million Btu per hour and is used to generate electricity. Emissions from the unit are discharged through a single stack (Emission Point: PR Unit CT3-EP1). | Dec 1969                    |
| PR-Unit 4 CT                 | 510-4-0434                     | One (1) General Electric Combustion turbine fired with No. 2 fuel oil. The unit has a maximum heat input of 258 million Btu per hour and is used to generate electricity. Emissions from the unit are discharged through a single stack (Emission Point: PR Unit CT4-EP1). | Dec 1969                    |

**CONSTELLATION POWER SOURCE GENERATION, LLC  
PHILADELPHIA ROAD GENERATING STATION  
3914 PULASKI HIGHWAY, BALTIMORE, MD 21224  
2018 PART 70 OPERATING PERMIT NO. 24-510-0265**

**SECTION II GENERAL CONDITIONS**

**1. DEFINITIONS**

**[COMAR 26.11.01.01] and [COMAR 26.11.02.01]**

The words or terms in this Part 70 permit shall have the meanings established under COMAR 26.11.01 and .02 unless otherwise stated in this permit.

**2. ACRONYMS**

|                 |  |
|-----------------|--|
| ARA             | Air and Radiation Administration   |
| BACT            | Best Available Control Technology  |
| Btu             | British thermal unit   |
| CAA             | Clean Air Act  |
| CAM             | Compliance Assurance Monitoring  |
| CEM             | Continuous Emissions Monitor   |
| CFR             | Code of Federal Regulations  |
| CO              | Carbon Monoxide  |
| COMAR           | Code of Maryland Regulations   |
| EPA             | United States Environmental Protection Agency                                  |
| FR              | Federal Register   |
| gr              | grains   |
| HAP             | Hazardous Air Pollutant  |
| MACT            | Maximum Achievable Control Technology  |
| MDE             | Maryland Department of the Environment   |
| MVAC            | Motor Vehicle Air Conditioner  |
| NESHAPS         | National Emission Standards for Hazardous Air Pollutants                       |
| NO <sub>x</sub> | Nitrogen Oxides  |
| NSPS            | New Source Performance Standards   |
| NSR             | New Source Review  |
| OTR             | Ozone Transport Region   |
| PM              | Particulate Matter   |
| PM10            | Particulate Matter with Nominal Aerodynamic Diameter of 10 micrometers or less |
| ppm             | parts per million  |
| ppb             | parts per billion  |
| PSD             | Prevention of Significant Deterioration  |
| PTC             | Permit to construct  |
| PTO             | Permit to operate (State)  |
| SIC             | Standard Industrial Classification   |
| SO <sub>2</sub> | Sulfur Dioxide   |

**CONSTELLATION POWER SOURCE GENERATION, LLC  
PHILADELPHIA ROAD GENERATING STATION  
3914 PULASKI HIGHWAY, BALTIMORE, MD 21224  
2018 PART 70 OPERATING PERMIT NO. 24-510-0265**

|     |                            |
|-----|----------------------------|
| TAP | Toxic Air Pollutant        |
| tpy | tons per year              |
| VE  | Visible Emissions          |
| VOC | Volatile Organic Compounds |

**3. EFFECTIVE DATE**

The effective date of the conditions in this Part 70 permit is the date of permit issuance, unless otherwise stated in the permit.

**4. PERMIT EXPIRATION**

**[COMAR 26.11.03.13B(2)]**

Upon expiration of this permit, the terms of the permit will automatically continue to remain in effect until a new Part 70 permit is issued for this facility provided that the Permittee has submitted a timely and complete application and has paid applicable fees under COMAR 26.11.02.16.

Otherwise, upon expiration of this permit the right of the Permittee to operate this facility is terminated.

**5. PERMIT RENEWAL**

**[COMAR 26.11.03.02B(3)] and [COMAR 26.11.03.02E]**

The Permittee shall submit to the Department a completed application for renewal of this Part 70 permit at least 12 months before the expiration of the permit. Upon submitting a completed application, the Permittee may continue to operate this facility pending final action by the Department on the renewal.

The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall submit such supplementary facts or corrected information no later than 10 days after becoming aware that this occurred. The Permittee shall also provide additional information as necessary to address any requirements that become applicable to the facility after the date a completed application was submitted, but prior to the release of a draft permit. This information shall be submitted to the Department no later than 20 days after a new requirement has been adopted.

**CONSTELLATION POWER SOURCE GENERATION, LLC  
PHILADELPHIA ROAD GENERATING STATION  
3914 PULASKI HIGHWAY, BALTIMORE, MD 21224  
2018 PART 70 OPERATING PERMIT NO. 24-510-0265**

**6. CONFIDENTIAL INFORMATION**

**[COMAR 26.11.02.02G]**

In accordance with the provisions of the State Government Article, Sec. 10-611 et seq., Annotated Code of Maryland, all information submitted in an application shall be considered part of the public record and available for inspection and copying, unless the Permittee claims that the information is confidential when it is submitted to the Department. At the time of the request for inspection or copying, the Department will make a determination with regard to the confidentiality of the information. The Permittee, when requesting confidentiality, shall identify the information in a manner specified by the Department and, when requested by the Department, promptly provide specific reasons supporting the claim of confidentiality. Information submitted to the Department without a request that the information be deemed confidential may be made available to the public. Subject to approval of the Department, the Permittee may provide a summary of confidential information that is suitable for public review. The content of this Part 70 permit is not subject to confidential treatment.

**7. PERMIT ACTIONS**

**[COMAR 26.11.03.06E(3)] and [COMAR 26.11.03.20(A)]**

This Part 70 permit may be revoked or reopened and revised for cause. The filing of an application by the Permittee for a permit revision or renewal; or a notification of termination, planned changes or anticipated noncompliance by the facility, does not stay a term or condition of this permit.

The Department shall reopen and revise, or revoke the Permittee's Part 70 permit under the following circumstances:

- a. Additional requirements of the Clean Air Act become applicable to this facility and the remaining permit term is 3 years or more;
- b. The Department or the EPA determines that this Part 70 permit contains a material mistake, or is based on false or inaccurate information supplied by or on behalf of the Permittee;
- c. The Department or the EPA determines that this Part 70 permit must be revised or revoked to assure compliance with applicable requirements of the Clean Air Act; or

**CONSTELLATION POWER SOURCE GENERATION, LLC  
PHILADELPHIA ROAD GENERATING STATION  
3914 PULASKI HIGHWAY, BALTIMORE, MD 21224  
2018 PART 70 OPERATING PERMIT NO. 24-510-0265**

- d. Additional requirements become applicable to an affected source under the Federal Acid Rain Program.

**8. PERMIT AVAILABILITY**

**[COMAR 26.11.02.13G]**

The Permittee shall maintain this Part 70 permit in the vicinity of the facility for which it was issued, unless it is not practical to do so, and make this permit immediately available to officials of the Department upon request.

**9. REOPENING THE PART 70 PERMIT FOR CAUSE BY THE EPA**

**[COMAR 26.11.03.20B]**

The EPA may terminate, modify, or revoke and reissue a permit for cause as prescribed in 40 CFR §70.7(g)

**10. TRANSFER OF PERMIT**

**[COMAR 26.11.02.02E]**

The Permittee shall not transfer this Part 70 permit except as provided in COMAR 26.11.03.15.

**11. REVISION OF PART 70 PERMITS – GENERAL CONDITIONS**

**[COMAR 26.11.03.14] and [COMAR 26.11.03.06A(8)]**

- a. The Permittee shall submit an application to the Department to revise this Part 70 permit when required under COMAR 26.11.03.15 -.17.
- b. When applying for a revision to a Part 70 permit, the Permittee shall comply with the requirements of COMAR 26.11.03.02 and .03 except that the application for a revision need include only information listed that is related to the proposed change to the source and revision to the permit. This information shall be sufficient to evaluate the proposed change and to determine whether it will comply with all applicable requirements of the Clean Air Act.

**CONSTELLATION POWER SOURCE GENERATION, LLC  
PHILADELPHIA ROAD GENERATING STATION  
3914 PULASKI HIGHWAY, BALTIMORE, MD 21224  
2018 PART 70 OPERATING PERMIT NO. 24-510-0265**

- c. The Permittee may not change any provision of a compliance plan or schedule in a Part 70 permit as an administrative permit amendment or as a minor permit modification unless the change has been approved by the Department in writing.
- d. A permit revision is not required for a change that is provided for in this permit relating to approved economic incentives, marketable permits, emissions trading, and other similar programs.

**12. SIGNIFICANT PART 70 OPERATING PERMIT MODIFICATIONS**

**[COMAR 26.11.03.17]**

The Permittee may apply to the Department to make a significant modification to its Part 70 Permit as provided in COMAR 26.11.03.17 and in accordance with the following conditions:

- a. A significant modification is a revision to the federally enforceable provisions in the permit that does not qualify as an administrative permit amendment under COMAR 26.11.03.15 or a minor permit modification as defined under COMAR 26.11.03.16.
- b. This permit does not preclude the Permittee from making changes, consistent with the provisions of COMAR 26.11.03, that would make the permit or particular terms and conditions of the permit irrelevant, such as by shutting down or reducing the level of operation of a source or of an emissions unit within the source. Air pollution control equipment shall not be shut down or its level of operation reduced if doing so would violate any term of this permit.
- c. Significant permit modifications are subject to all requirements of COMAR 26.11.03 as they apply to permit issuance and renewal, including the requirements for applications, public participation, and review by affected states and EPA, except:
  - (1) An application need include only information pertaining to the proposed change to the source and modification of this permit, including a description of the change and modification, and any new applicable requirements of the Clean Air Act that will apply if the change occurs;

**CONSTELLATION POWER SOURCE GENERATION, LLC  
PHILADELPHIA ROAD GENERATING STATION  
3914 PULASKI HIGHWAY, BALTIMORE, MD 21224  
2018 PART 70 OPERATING PERMIT NO. 24-510-0265**

- (2) Public participation, and review by affected states and EPA, is limited to only the application and those federally enforceable terms and conditions of the Part 70 permit that are affected by the significant permit modification.
- d. As provided in COMAR 26.11.03.15B(5), an administrative permit amendment may be used to make a change that would otherwise require a significant permit modification if procedures for enhanced preconstruction review of the change are followed that satisfy the requirements of 40 CFR 70.7(d)(1)(v).
- e. Before making a change that qualifies as a significant permit modification, the Permittee shall obtain all permits-to-construct and approvals required by COMAR 26.11.02.
- f. The Permittee shall not make a significant permit modification that results in a violation of any applicable requirement of the Clean Air Act.
- g. The permit shield in COMAR 26.11.03.23 applies to a final significant permit modification that has been issued by the Department, to the extent applicable under COMAR 26.11.03.23.

**13. MINOR PERMIT MODIFICATIONS**

**[COMAR 26.11.03.16]**

The Permittee may apply to the Department to make a minor modification to the federally enforceable provisions of this Part 70 permit as provided in COMAR 26.11.03.16 and in accordance with the following conditions:

- a. A minor permit modification is a Part 70 permit revision that:
  - (1) Does not result in a violation of any applicable requirement of the Clean Air Act;
  - (2) Does not significantly revise existing federally enforceable monitoring, including test methods, reporting, record keeping, or compliance certification requirements except by:
    - (a) Adding new requirements,

**CONSTELLATION POWER SOURCE GENERATION, LLC  
PHILADELPHIA ROAD GENERATING STATION  
3914 PULASKI HIGHWAY, BALTIMORE, MD 21224  
2018 PART 70 OPERATING PERMIT NO. 24-510-0265**

- (b) Eliminating the requirements if they are rendered meaningless because the emissions to which the requirements apply will no longer occur, or
    - (c) Changing from one approved test method for a pollutant and source category to another;
  - (3) Does not require or modify a:
    - (a) Case-by-case determination of a federally enforceable emissions standard,
    - (b) Source specific determination for temporary sources of ambient impacts, or
    - (c) Visibility or increment analysis;
  - (4) Does not seek to establish or modify a federally enforceable permit term or condition for which there is no corresponding underlying applicable requirement of the Clean Air Act, but that the Permittee has assumed to avoid an applicable requirement to which the source would otherwise be subject, including:
    - (a) A federally enforceable emissions standard applied to the source pursuant to COMAR 26.11.02.03 to avoid classification as a Title I modification; and
    - (b) An alternative emissions standard applied to an emissions unit pursuant to regulations promulgated under Section 112(i)(5) of the Clean Air Act
  - (5) Is not a Title I modification; and
  - (6) Is not required under COMAR 26.11.03.17 to be processed as a significant modification to this Part 70 permit.
- b. Application for a Minor Permit Modification

The Permittee shall submit to the Department an application for a minor permit modification that satisfies the requirements of COMAR 26.11.03.03 which includes the following:



**CONSTELLATION POWER SOURCE GENERATION, LLC  
PHILADELPHIA ROAD GENERATING STATION  
3914 PULASKI HIGHWAY, BALTIMORE, MD 21224  
2018 PART 70 OPERATING PERMIT NO. 24-510-0265**

- (1) A description of the proposed change, the emissions resulting from the change, and any new applicable requirements that will apply if the change is made;
- (2) The proposed minor permit modification;
- (3) Certification by a responsible official, in accordance with COMAR 26.11.02.02F, that:
  - (a) The proposed change meets the criteria for a minor permit modification, and
  - (b) The Permittee has obtained or applied for all required permits-to-construct required by COMAR 26.11.03.16 with respect to the proposed change;
- (4) Completed forms for the Department to use to notify the EPA and affected states, as required by COMAR 26.11.03.07-.12.

c. Permittee's Ability to Make Change

- (1) For changes proposed as minor permit modifications to this permit that will require the applicant to obtain a permit to construct, the permit to construct must be issued prior to the new change.
- (2) During the period of time after the Permittee applies for a minor modification but before the Department acts in accordance with COMAR 26.11.03.16F(2):
  - (a) The Permittee shall comply with applicable requirements of the Clean Air Act related to the change and the permit terms and conditions described in the application for the minor modification.
  - (b) The Permittee is not required to comply with the terms and conditions in the permit it seeks to modify. If the Permittee fails to comply with the terms and conditions in the application during this time, the terms and conditions of both this permit and the application for modification may be enforced against it.

**CONSTELLATION POWER SOURCE GENERATION, LLC  
PHILADELPHIA ROAD GENERATING STATION  
3914 PULASKI HIGHWAY, BALTIMORE, MD 21224  
2018 PART 70 OPERATING PERMIT NO. 24-510-0265**

- d. The Permittee is subject to enforcement action if it is determined at any time that a change made under COMAR 26.11.03.16 is not within the scope of this regulation.
- e. Minor permit modification procedures may be used for Part 70 permit modifications involving the use of economic incentives, marketable permits, emissions trading, and other similar approaches, but only to the extent that the minor permit modification procedures are explicitly provided for in regulations approved by the EPA as part of the Maryland SIP or in other applicable requirements of the Clean Air Act.

**14. ADMINISTRATIVE PART 70 OPERATING PERMIT AMENDMENTS**

**[COMAR 26.11.03.15]**

The Permittee may apply to the department to make an administrative permit amendment as provided in COMAR 26.11.03.15 and in accordance with the following conditions:

- a. An application for an administrative permit amendment shall:
  - (1) Be in writing;
  - (2) Include a statement certified by a responsible official that the proposed amendment meets the criteria in COMAR 26.11.03.15 for an administrative permit amendment, and
  - (3) Identify those provisions of this part 70 permit for which the amendment is requested, including the basis for the request.
- b. An administrative permit amendment:
  - (1) Is a correction of a typographical error;
  - (2) Identifies a change in the name, address, or phone number of a person identified in this permit, or a similar administrative change involving the Permittee or other matters which are not directly related to the control of air pollution;
  - (3) requires more frequent monitoring or reporting by the Permittee;

**CONSTELLATION POWER SOURCE GENERATION, LLC  
PHILADELPHIA ROAD GENERATING STATION  
3914 PULASKI HIGHWAY, BALTIMORE, MD 21224  
2018 PART 70 OPERATING PERMIT NO. 24-510-0265**

- (4) Allows for a change in ownership or operational control of a source for which the Department determines that no other revision to the permit is necessary and is documented as per COMAR 26.11.03.15B(4);
  - (5) Incorporates into this permit the requirements from preconstruction review permits or approvals issued by the Department in accordance with COMAR 26.11.03.15B(5), but only if it satisfies 40 CFR 70.7(d)(1)(v);
  - (6) Incorporates any other type of change, as approved by the EPA, which is similar to those in COMAR 26.11.03.15B(1)—(4);
  - (7) Notwithstanding COMAR 26.11.03.15B(1)—(6), all modifications to acid rain control provisions included in this Part 70 permit are governed by applicable requirements promulgated under Title IV of the Clean Air Act; or
  - (8) Incorporates any change to a term or condition specified as State-only enforceable, if the Permittee has obtained all necessary permits-to-construct and approvals that apply to the change.
- c. The Permittee may make the change addressed in the application for an administrative amendment upon receipt by the Department of the application, if all permits-to-construct or approvals otherwise required by COMAR 26.11.02 prior to making the change have first been obtained from the Department.
  - d. The permit shield in COMAR 26.11.03.23 applies to administrative permit amendments made under Section B(5) of COMAR 26.11.03.15 , but only after the Department takes final action to revise the permit.
  - e. The Permittee is subject to enforcement action if it is determined at any time that a change made under COMAR 26.11.03.15 is not within the scope of this regulation.

**CONSTELLATION POWER SOURCE GENERATION, LLC  
PHILADELPHIA ROAD GENERATING STATION  
3914 PULASKI HIGHWAY, BALTIMORE, MD 21224  
2018 PART 70 OPERATING PERMIT NO. 24-510-0265**

**15. OFF-PERMIT CHANGES TO THIS SOURCE**

**[COMAR 26.11.03.19]**

The Permittee may make off-permit changes to this facility as provided in COMAR 26.11.03.19 and in accordance with the following conditions:

- a. The Permittee may make a change to this permitted facility that is not addressed or prohibited by the federally enforceable conditions of this Part 70 permit without obtaining a Part 70 permit revision if:
  - (1) The Permittee has obtained all permits and approvals required by COMAR 26.11.02 and .03;
  - (2) The change is not subject to any requirements under Title IV of the Clean Air Act;
  - (3) The change is not a Title I modification; and
  - (4) The change does not violate an applicable requirement of the Clean Air Act or a federally enforceable term or condition of the permit.
- b. For a change that qualifies under COMAR 26.11.03.19, the Permittee shall provide contemporaneous written notice to the Department and the EPA, except for a change to an emissions unit or activity that is exempt from the Part 70 permit application, as provided in COMAR 26.11.03.04. This written notice shall describe the change, including the date it was made, any change in emissions, including the pollutants emitted, and any new applicable requirements of the Clean Air Act that apply as a result of the change.
- c. Upon satisfying the requirements of COMAR 26.11.03.19, the Permittee may make the proposed change.
- d. The Permittee shall keep a record describing:
  - (1) Changes made at the facility that result in emissions of a regulated air pollutant subject to an applicable requirement of the Clean Air Act , but not otherwise regulated under this permit; and
  - (2) The emissions resulting from those changes.

**CONSTELLATION POWER SOURCE GENERATION, LLC  
PHILADELPHIA ROAD GENERATING STATION  
3914 PULASKI HIGHWAY, BALTIMORE, MD 21224  
2018 PART 70 OPERATING PERMIT NO. 24-510-0265**

- e. Changes that qualify under COMAR 26.11.03.19 are not subject to the requirements for Part 70 revisions.
- f. The Permittee shall include each off-permit change under COMAR 26.11.03.19 in the application for renewal of the part 70 permit.
- g. The permit shield in COMAR 26.11.03.23 does not apply to off-permit changes made under COMAR 26.11.03.19.
- h. The Permittee is subject to enforcement action if it is determined that an off-permit change made under COMAR 26.11.03.19 is not within the scope of this regulation.

**16. ON-PERMIT CHANGES TO SOURCES**

**[COMAR 26.11.03.18]**

The Permittee may make on-permit changes that are allowed under Section 502(b)(10) of the Clean Air Act as provided in COMAR 26.11.03.18 and in accordance with the following conditions:

- a. The Permittee may make a change to this facility without obtaining a revision to this Part 70 permit if:
  - (1) The change is not a Title I modification;
  - (2) The change does not result in emissions in excess of those expressly allowed under the federally enforceable provisions of the Part 70 permit for the permitted facility or for an emissions unit within the facility, whether expressed as a rate of emissions or in terms of total emissions;
  - (3) The Permittee has obtained all permits and approvals required by COMAR 26.11.02 and .03;
  - (4) The change does not violate an applicable requirement of the Clean Air Act;
  - (5) The change does not violate a federally enforceable permit term or condition related to monitoring, including test methods, record keeping, reporting, or compliance certification requirements;

**CONSTELLATION POWER SOURCE GENERATION, LLC  
PHILADELPHIA ROAD GENERATING STATION  
3914 PULASKI HIGHWAY, BALTIMORE, MD 21224  
2018 PART 70 OPERATING PERMIT NO. 24-510-0265**

- (6) The change does not violate a federally enforceable permit term or condition limiting hours of operation, work practices, fuel usage, raw material usage, or production levels if the term or condition has been established to limit emissions allowable under this permit;
  - (7) If applicable, the change does not modify a federally enforceable provision of a compliance plan or schedule in this Part 70 permit unless the Department has approved the change in writing; and
  - (8) This permit does not expressly prohibit the change under COMAR 26.11.03.18.
- b. The Permittee shall notify the Department and the EPA in writing of a proposed on-permit change under COMAR 26.11.03.18 not later than 7 days before the change is made. The written information shall include the following information:
- (1) A description of the proposed change;
  - (2) The date on which the change is proposed to be made;
  - (3) Any change in emissions resulting from the change, including the pollutants emitted;
  - (4) Any new applicable requirement of the Clean Air Act; and
  - (5) Any permit term or condition that would no longer apply.
- c. The responsible official of this facility shall certify in accordance with COMAR 26.11.02.02F that the proposed change meets the criteria for the use of on-permit changes under COMAR 26.11.03.18.
- d. The Permittee shall attach a copy of each notice required by condition b. above to this Part 70 permit.
- e. On-permit changes that qualify under COMAR 26.11.03.18 are not subject to the requirements for part 70 permit revisions.
- f. Upon satisfying the requirements under COMAR 26.11.03.18, the Permittee may make the proposed change.

**CONSTELLATION POWER SOURCE GENERATION, LLC  
PHILADELPHIA ROAD GENERATING STATION  
3914 PULASKI HIGHWAY, BALTIMORE, MD 21224  
2018 PART 70 OPERATING PERMIT NO. 24-510-0265**

- g. The permit shield in COMAR 26.11.03.23 does not apply to on-permit changes under COMAR 26.11.03.18.
- h. The Permittee is subject to enforcement action if it is determined that an on-permit change made under COMAR 26.11.03.18 is not within the scope of the regulation or violates any requirement of the State air pollution control law.

**17. FEE PAYMENT**

**[COMAR 26.11.02.16A(2) & (5)(b)]**

- a. The fee for this Part 70 permit is as prescribed in Regulation .19 of COMAR 26.11.02.
- b. The fee is due on and shall be paid on or before each 12-month anniversary date of the permit.
- c. Failure to pay the annual permit fee constitutes cause for revocation of the permit by the Department.

**18. REQUIREMENTS FOR PERMITS-TO-CONSTRUCT AND APPROVALS**

**[COMAR 26.11.02.09.]**

The Permittee may not construct or modify or cause to be constructed or modified any of the following sources without first obtaining, and having in current effect, the specified permits-to-construct and approvals:

- a. New Source Review source, as defined in COMAR 26.11.01.01, approval required, except for generating stations constructed by electric companies;
- b. Prevention of Significant Deterioration source, as defined in COMAR 26.11.01.01, approval required, except for generating stations constructed by electric companies;
- c. New Source Performance Standard source, as defined in COMAR 26.11.01.01, permit to construct required, except for generating stations constructed by electric companies;

**CONSTELLATION POWER SOURCE GENERATION, LLC  
PHILADELPHIA ROAD GENERATING STATION  
3914 PULASKI HIGHWAY, BALTIMORE, MD 21224  
2018 PART 70 OPERATING PERMIT NO. 24-510-0265**

- d. National Emission Standards for Hazardous Air Pollutants source, as defined in COMAR 26.11.01.01, permit to construct required, except for generating stations constructed by electric companies;
- e. A stationary source of lead that discharges one ton per year or more of lead or lead compounds measured as elemental lead, permit to construct required, except for generating stations constructed by electric companies;
- f. All stationary sources of air pollution, including installations and air pollution control equipment, except as listed in COMAR 26.11.02.10, permit to construct required;
- g. In the event of a conflict between the applicability of (a.— e.) above and an exemption listed in COMAR 26.11.02.10, the provision that requires a permit applies.
- h. Approval of a PSD or NSR source by the Department does not relieve the Permittee obtaining an approval from also obtaining all permits-to-construct required by (c.— g.) above.

**19. CONSOLIDATION OF PROCEDURES FOR PUBLIC PARTICIPATION**

**[COMAR 26.11.02.11C] and [COMAR 26.11.03.01K]**

The Permittee may request the Department to authorize special procedures for the Permittee to apply simultaneously, to the extent possible, for a permit to construct and a revision to this permit.

These procedures may provide for combined public notices, informational meetings, and public hearings for both permits but shall not adversely affect the rights of a person, including EPA and affected states, to obtain information about the application for a permit, to comment on an application, or to challenge a permit that is issued.

These procedures shall not alter any existing permit procedures or time frames.



**CONSTELLATION POWER SOURCE GENERATION, LLC  
PHILADELPHIA ROAD GENERATING STATION  
3914 PULASKI HIGHWAY, BALTIMORE, MD 21224  
2018 PART 70 OPERATING PERMIT NO. 24-510-0265**

**20. PROPERTY RIGHTS**

**[COMAR 26.11.03.06E(4)]**

This Part 70 permit does not convey any property rights of any sort, or any exclusive privileges.

**21. SEVERABILITY**

**[COMAR 26.11.03.06A(5)]**

If any portion of this Part 70 permit is challenged, or any term or condition deemed unenforceable, the remainder of the requirements of the permit continues to be valid.

**22. INSPECTION AND ENTRY**

**[COMAR 26.11.03.06G(3)]**

The Permittee shall allow employees and authorized representatives of the Department, the EPA, and local environmental health agencies, upon presentation of credentials or other documents as may be required by law, to:

- a. Enter at a reasonable time without delay and without prior notification the Permittee's property where a Part 70 source is located, emissions-related activity is conducted, or records required by this permit are kept;
- b. Have access to and make copies of records required by the permit;
- c. Inspect all emissions units within the facility subject to the permit and all related monitoring systems, air pollution control equipment, and practices or operations regulated or required by the permit; and
- d. Sample or monitor any substances or parameters at or related to the emissions units at the facility for the purpose of determining compliance with the permit.

**CONSTELLATION POWER SOURCE GENERATION, LLC  
PHILADELPHIA ROAD GENERATING STATION  
3914 PULASKI HIGHWAY, BALTIMORE, MD 21224  
2018 PART 70 OPERATING PERMIT NO. 24-510-0265**

**23. DUTY TO PROVIDE INFORMATION**

**[COMAR 26.11.03.06E(5)]**

The Permittee shall furnish to the Department, within a reasonable time specified by the Department, information requested in writing by the Department in order to determine whether the Permittee is in compliance with the federally enforceable conditions of this Part 70 permit, or whether cause exists for revising or revoking the permit. Upon request, the Permittee shall also furnish to the Department records required to be kept under the permit.

For information claimed by the Permittee to be confidential and therefore potentially not discloseable to the public, the Department may require the Permittee to provide a copy of the records directly to the EPA along with a claim of confidentiality.

The Permittee shall also furnish to the Department, within a reasonable time specified by the Department, information or records requested in writing by the Department in order to determine if the Permittee is in compliance with the State-only enforceable conditions of this permit.

**24. COMPLIANCE REQUIREMENTS**

**[COMAR 26.11.03.06E(1)] and [COMAR 26.11.03.06A(11)] and [COMAR 26.11.02.05]**

The Permittee shall comply with the conditions of this Part 70 permit. Noncompliance with the permit constitutes a violation of the Clean Air Act, and/or the Environment Article Title 2 of the Annotated Code of Maryland and may subject the Permittee to:

- a. Enforcement action,
- b. Permit revocation or revision,
- c. Denial of the renewal of a Part 70 permit, or
- d. Any combination of these actions.

The conditions in this Part 70 permit are enforceable by EPA and citizens under the Clean Air Act except for the State-only enforceable conditions.

**CONSTELLATION POWER SOURCE GENERATION, LLC  
PHILADELPHIA ROAD GENERATING STATION  
3914 PULASKI HIGHWAY, BALTIMORE, MD 21224  
2018 PART 70 OPERATING PERMIT NO. 24-510-0265**

Under Environment Article Section 2-609, Annotated Code of Maryland, the Department may seek immediate injunctive relief against a person who violates this permit in such a manner as to cause a threat to human health or the environment.

**25. CREDIBLE EVIDENCE**

Nothing in this permit shall be interpreted to preclude the use of credible evidence to demonstrate noncompliance with any term of this permit.

**26. NEED TO HALT OR REDUCE ACTIVITY NOT A DEFENSE**

**[COMAR 26.11.03.06E(2)]**

The need to halt or reduce activity in order to comply with the conditions of this permit may not be used as a defense in an enforcement action.

**27. CIRCUMVENTION**

**[COMAR 26.11.01.06]**

The Permittee may not install or use any article, machine, equipment or other contrivance, the use of which, without resulting in a reduction in the total weight of emissions, conceals or dilutes emissions which would otherwise constitute a violation of any applicable air pollution control regulation.

**28. PERMIT SHIELD**

**[COMAR 26.11.03.23]**

A permit shield as described in COMAR 26.11.03.23 shall apply only to terms and conditions in this Part 70 permit that have been specifically identified as covered by the permit shield. Neither this permit nor COMAR 26.11.03.23 alters the following:

- a. The emergency order provisions in Section 303 of the Clean Air Act, including the authority of EPA under that section;

**CONSTELLATION POWER SOURCE GENERATION, LLC  
PHILADELPHIA ROAD GENERATING STATION  
3914 PULASKI HIGHWAY, BALTIMORE, MD 21224  
2018 PART 70 OPERATING PERMIT NO. 24-510-0265**

- b. The liability of the Permittee for a violation of an applicable requirement of the Clean Air Act before or when this permit is issued or for a violation that continues after issuance;
- c. The requirements of the Acid Rain Program, consistent with Section 408(a) of the Clean Air Act;
- d. The ability of the Department or EPA to obtain information from a source pursuant to Maryland law and Section 114 of the Clean Air Act; or
- e. The authority of the Department to enforce an applicable requirement of the State air pollution control law that is not an applicable requirement of the Clean Air Act.

**29. ALTERNATE OPERATING SCENARIOS**

**[COMAR 26.11.03.06A(9)]**

For all alternate operating scenarios approved by the Department and contained within this permit, the Permittee, while changing from one approved scenario to another, shall contemporaneously record in a log maintained at the facility each scenario under which the emissions unit is operating and the date and time the scenario started and ended.

**CONSTELLATION POWER SOURCE GENERATION, LLC  
PHILADELPHIA ROAD GENERATING STATION  
3914 PULASKI HIGHWAY, BALTIMORE, MD 21224  
2018 PART 70 OPERATING PERMIT NO. 24-510-0265**

**SECTION III PLANT WIDE CONDITIONS**

**1. PARTICULATE MATTER FROM CONSTRUCTION AND DEMOLITION**

**[COMAR 26.11.06.03D]**

The Permittee shall not cause or permit any building, its appurtenances, or a road to be used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne.

**2. OPEN BURNING**

**[COMAR 26.11.07]**

Except as provided in COMAR 26.11.07.04, the Permittee shall not cause or permit an open fire from June 1 through August 31 of any calendar year. Prior to any open burning, the Permittee shall request and receive approval from the Department.

**3. AIR POLLUTION EPISODE**

**[COMAR 26.11.05.04]**

When requested by the Department, the Permittee shall prepare in writing standby emissions reduction plans, consistent with good industrial practice and safe operating procedures, for reducing emissions creating air pollution during periods of Alert, Warning, and Emergency of an air pollution episode.

**4. REPORT OF EXCESS EMISSIONS AND DEVIATIONS**

**[COMAR 26.11.01.07] and [COMAR 26.11.03.06C(7)]**

The Permittee shall comply with the following conditions for occurrences of excess emissions and deviations from requirements of this permit, including those in Section VI – State-only Enforceable Conditions:

- a. Report any deviation from permit requirements that could endanger human health or the environment, by orally notifying the Department immediately upon discovery of the deviation;

**CONSTELLATION POWER SOURCE GENERATION, LLC  
PHILADELPHIA ROAD GENERATING STATION  
3914 PULASKI HIGHWAY, BALTIMORE, MD 21224  
2018 PART 70 OPERATING PERMIT NO. 24-510-0265**

- b. Promptly report all occurrences of excess emissions that are expected to last for one hour or longer by orally notifying the Department of the onset and termination of the occurrence;
- c. When requested by the Department the Permittee shall report all deviations from permit conditions, including those attributed to malfunctions as defined in COMAR 26.11.01.07A, within 5 days of the request by submitting a written description of the deviation to the Department. The written report shall include the cause, dates and times of the onset and termination of the deviation, and an account of all actions planned or taken to reduce, eliminate, and prevent recurrence of the deviation;
- d. The Permittee shall submit to the Department semi-annual monitoring reports that confirm that all required monitoring was performed, and that provide accounts of all deviations from permit requirements that occurred during the reporting periods. Reporting periods shall be January 1 through June 30 and July 1 through December 31, and reports shall be submitted within 30 days of the end of each reporting period. Each account of deviation shall include a description of the deviation, the dates and times of onset and termination, identification of the person who observed or discovered the deviation, causes and corrective actions taken, and actions taken to prevent recurrence. If no deviations from permit conditions occurred during a reporting period, the Permittee shall submit a written report that so states.
- e. When requested by the Department, the Permittee shall submit a written report to the Department within 10 days of receiving the request concerning an occurrence of excess emissions. The report shall contain the information required in COMAR 26.11.01.07D(2).

**5. ACCIDENTAL RELEASE PROVISIONS**

**[COMAR 26.11.03.03B(23)] and [40 CFR 68]**

Should the Permittee become subject to 40 CFR 68 during the term of this permit, the Permittee shall submit risk management plans by the date specified in 40 CFR 68.150 and shall certify compliance with the requirements of 40 CFR 68 as part of the annual compliance certification as required by 40 CFR 70.

**CONSTELLATION POWER SOURCE GENERATION, LLC  
PHILADELPHIA ROAD GENERATING STATION  
3914 PULASKI HIGHWAY, BALTIMORE, MD 21224  
2018 PART 70 OPERATING PERMIT NO. 24-510-0265**

The Permittee shall initiate a permit revision or reopening according to the procedures of 40 CFR 70.7 to incorporate appropriate permit conditions into the Permittee's Part 70 permit.

**6. GENERAL TESTING REQUIREMENTS**

**[COMAR 26.11.01.04]**

The Department may require the Permittee to conduct, or have conducted, testing to determine compliance with this Part 70 permit. The Department, at its option, may witness or conduct these tests. This testing shall be done at a reasonable time, and all information gathered during a testing operation shall be provided to the Department.

**7. EMISSIONS TEST METHODS**

**[COMAR 26.11.01.04]**

Compliance with the emissions standards and limitations in this Part 70 permit shall be determined by the test methods designated and described below or other test methods submitted to and approved by the Department.

Reference documents of the test methods approved by the Department include the following:

- a. 40 CFR 60, appendix A
- b. 40 CFR 51, appendix M
- c. The Department's Technical Memorandum 91-01 "Test Methods and Equipment Specifications for Stationary Sources", (January 1991), as amended through Supplement 3, (October 1, 1997)

**8. EMISSIONS CERTIFICATION REPORT**

**[COMAR 26.11.01.05-1] and [COMAR 26.11.02.19C] and  
[COMAR 26.11.02.19D]**

The Permittee shall certify actual annual emissions of regulated pollutants from the facility on a calendar year basis.

**CONSTELLATION POWER SOURCE GENERATION, LLC  
PHILADELPHIA ROAD GENERATING STATION  
3914 PULASKI HIGHWAY, BALTIMORE, MD 21224  
2018 PART 70 OPERATING PERMIT NO. 24-510-0265**

- a. The certification shall be on forms obtained from the Department and submitted to the Department not later than April 1 of the year following the year for which the certification is required;
- b. The individual making the certification shall certify that the information is accurate to the individual's best knowledge. The individual shall be:
  - (1) Familiar with each source for which the certifications forms are submitted, and
  - (2) Responsible for the accuracy of the emissions information;
- c. The Permittee shall maintain records necessary to support the emissions certification including the following information if applicable:
  - (1) The total amount of actual emissions of each regulated pollutant and the total of all regulated pollutants;
  - (2) An explanation of the methods used to quantify the emissions and the operating schedules and production data that were used to determine emissions, including significant assumptions made;
  - (3) Amounts, types and analyses of all fuels used;
  - (4) Emissions data from continuous emissions monitors that are required by this permit, including monitor calibration and malfunction information;
  - (5) Identification, description, and use records of all air pollution control equipment and compliance monitoring equipment including:
    - (a) Significant maintenance performed,
    - (b) Malfunctions and downtime, and
    - (c) Episodes of reduced efficiency of all equipment;
  - (6) Limitations on source operation or any work practice standards that significantly affect emissions; and
  - (7) Other relevant information as required by the Department.



**CONSTELLATION POWER SOURCE GENERATION, LLC  
PHILADELPHIA ROAD GENERATING STATION  
3914 PULASKI HIGHWAY, BALTIMORE, MD 21224  
2018 PART 70 OPERATING PERMIT NO. 24-510-0265**

**9. COMPLIANCE CERTIFICATION REPORT**

**[COMAR 26.11.03.06G(6) and (7)]**

The Permittee shall submit to the Department and EPA Region III a report certifying compliance with each term of this Part 70 permit including each applicable standard, emissions limitation, and work practice for the previous calendar year by April 1 of each year.

- a. The compliance certification shall include:
  - (1) The identification of each term or condition of this permit which is the basis of the certification;
  - (2) The compliance status;
  - (3) Whether the compliance was continuous or intermittent;
  - (4) The methods used for determining the compliance status of each source, currently and over the reporting period; and
  - (5) Any other information required to be reported to the Department that is necessary to determine the compliance status of the Permittee with this permit.
- b. The Permittee shall submit the compliance certification reports to the Department and EPA simultaneously.

**10. CERTIFICATION BY RESPONSIBLE OFFICIAL**

**[COMAR 26.11.02.02F]**

All application forms, reports, and compliance certifications submitted pursuant to this permit shall be certified by a responsible official as to truth, accuracy, and completeness. The Permittee shall expeditiously notify the Department of an appointment of a new responsible official.

The certification shall be in the following form:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons

**CONSTELLATION POWER SOURCE GENERATION, LLC  
PHILADELPHIA ROAD GENERATING STATION  
3914 PULASKI HIGHWAY, BALTIMORE, MD 21224  
2018 PART 70 OPERATING PERMIT NO. 24-510-0265**

who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

**11. SAMPLING AND EMISSIONS TESTING RECORD KEEPING**

**[COMAR 26.11.03.06C(5)]**

The Permittee shall gather and retain the following information when sampling and testing for compliance demonstrations:

- a. The location as specified in this permit, and the date and time that samples and measurements are taken;
- b. All pertinent operating conditions existing at the time that samples and measurements are taken;
- c. The date that each analysis of a sample or emissions test is performed and the name of the person taking the sample or performing the emissions test;
- d. The identity of the Permittee, individual, or other entity that performed the analysis;
- e. The analytical techniques and methods used; and
- f. The results of each analysis.

**12. GENERAL RECORDKEEPING**

**[COMAR 26.11.03.06C(6)]**

The Permittee shall retain records of all monitoring data and information that support the compliance certification for a period of five (5) years from the date that the monitoring, sample measurement, application, report or emissions test was completed or submitted to the Department.

These records and support information shall include:

- a. All calibration and maintenance records;

**CONSTELLATION POWER SOURCE GENERATION, LLC  
PHILADELPHIA ROAD GENERATING STATION  
3914 PULASKI HIGHWAY, BALTIMORE, MD 21224  
2018 PART 70 OPERATING PERMIT NO. 24-510-0265**

- b. All original data collected from continuous monitoring instrumentation;
- c. Records which support the annual emissions certification; and
- d. Copies of all reports required by this permit.

**13. GENERAL CONFORMITY**

**[COMAR 26.11.26.09]**

The Permittee shall comply with the general conformity requirements of 40 CFR 93, Subpart B and COMAR 26.11.26.09.

**14. ASBESTOS PROVISIONS**

**[40 CFR 61, Subpart M]**

The Permittee shall comply with 40 CFR 61, Subpart M when conducting any renovation or demolition activities at the facility.

**15. OZONE DEPLETING REGULATIONS**

**[40 CFR 82, Subpart F]**

The Permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, except as provided for MVACs in subpart B:

- a. Persons opening appliances for maintenance, service, repair, or disposal shall comply with the prohibitions and required practices pursuant to 40 CFR 82.154 and 82.156.
- b. Equipment used during the maintenance, service, repair or disposal of appliances shall comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- c. Persons performing maintenance, service, repairs or disposal of appliances shall be certified by an approved technician certification program pursuant to 40 CFR 82.161.

**CONSTELLATION POWER SOURCE GENERATION, LLC  
PHILADELPHIA ROAD GENERATING STATION  
3914 PULASKI HIGHWAY, BALTIMORE, MD 21224  
2018 PART 70 OPERATING PERMIT NO. 24-510-0265**

- d. Persons disposing of small appliances, MVACS, and MVAC-like appliances as defined in 40 CFR 82.152, shall comply with record keeping requirements pursuant to 40 CFR 82.155.
- e. Persons owning commercial or industrial process refrigeration equipment shall comply with the leak repair requirements pursuant to 40 CFR 82.156.
- f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant shall keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.

**16. ACID RAIN PERMIT**

Not Applicable.

**CONSTELLATION POWER SOURCE GENERATION, LLC  
 PHILADELPHIA ROAD GENERATING STATION  
 3914 PULASKI HIGHWAY, BALTIMORE, MD 21224  
 2018 PART 70 OPERATING PERMIT NO. 24-510-0265**

**SECTION IV PLANT SPECIFIC CONDITIONS**

This section provides tables that include the emissions standards, emissions limitations, and work practices applicable to each emissions unit located at this facility. The Permittee shall comply with all applicable emissions standards, emissions limitations and work practices included herein.

The tables also include testing, monitoring, record keeping and reporting requirements specific to each emissions unit. In addition to the requirements included here in **Section IV**, the Permittee is also subject to the general testing, monitoring, record keeping and reporting requirements included in **Section III – Plant Wide Conditions** of this permit.

Unless otherwise provided in the specific requirements for an emissions unit, the Permittee shall maintain at the facility for at least five (5) years, and shall make available to the Department upon request, all records that the Permittee is required under this section to establish. **[Reference: COMAR 26.11.03.06C(5)(g)]**

| <b>Table IV – 1</b> |  |
|---------------------|--|
| <b>1.0</b>          | <p><b><u>Emissions Unit Number(s): Combustion Turbines</u></b></p> <p><b>PR-Unit 1 CT, PR-Unit 2 CT, PR-Unit 3 CT, PR-Unit 4 CT:</b><br/>           Four (4) General Electric Combustion turbines fired with No. 2 fuel oil and each has a maximum heat input of 258 million Btu per hour. <b>[510-4-0431 thru 510-4-0434]</b></p>   |
| <b>1.1</b>          | <p><b><u>Applicable Standards/Limits:</u></b></p> <p>A. <u>Control of Visible Emissions</u><br/> <b>COMAR 26.11.09.05 - Visible Emissions.</b><br/> <b>“A. Fuel Burning Equipment.</b><br/> <b>(2) Areas III and IV.</b> In Areas III and IV, a person may not cause or permit the discharge of emissions from any fuel burning equipment, other than water in an uncombined form, which is visible to human observers except that, for the purpose of demonstrating compliance using COM data, emissions that are visible to a human observer are those that are equal to or greater than 10 percent opacity.<br/> <b>(3) Exceptions.</b> Section A(1) and (2) of this regulation do not apply to emissions during load changing, soot blowing, startup, or adjustments or occasional cleaning of control equipment if:<br/>           (a) The visible emissions are not greater than 40 percent opacity; and<br/>           (b) The visible emissions do not occur for more than 6 consecutive minutes</p> |

**CONSTELLATION POWER SOURCE GENERATION, LLC  
 PHILADELPHIA ROAD GENERATING STATION  
 3914 PULASKI HIGHWAY, BALTIMORE, MD 21224  
 2018 PART 70 OPERATING PERMIT NO. 24-510-0265**

**Table IV – 1**

in any sixty minute period.”

**B. Control of Sulfur Oxides**

**COMAR 26.11.09.07: Control of Sulfur Oxides From Fuel Burning Equipment.**

“A. Sulfur Content Limitations for Fuel. A person may not burn, sell, or make available for sale any fuel with a sulfur content by weight in excess of or which otherwise exceeds the following limitations:

(2) In Areas III and IV:

(a) All solid fuels, 1.0 percent;

**(b) Distillate fuel oils, 0.3 percent;**

(c) Residual fuel oils, 1.0 percent.”

**C. Control of Nitrogen Oxides:**

**COMAR 26.11.09.08G - Requirements for Fuel-Burning Equipment with a Capacity Factor of 15 Percent or Less, and Combustion Turbines with a Capacity Factor Greater than 15 Percent.**

“(1) A person who owns or operates fuel-burning equipment with a capacity factor (as defined in 40 CFR Part 72.2) of 15 percent or less shall:

(a) Provide certification of the capacity factor of the equipment to the Department in writing;

(b) For fuel-burning equipment that operates more than 500 hours during a calendar year, perform a combustion analysis and optimize combustion at least once annually;

(c) Maintain the results of the combustion analysis at the site for at least 2 years and make these results available to the Department and the EPA upon request;

(d) *Not applicable*

(e) *Not applicable*

(2) A person who owns or operates a combustion turbine with a capacity factor greater than 15 percent shall meet an hourly average NO<sub>x</sub> emission rate of not more than 42 ppm when burning gas or 65 ppm when burning fuel oil (dry volume at 15 percent oxygen) or meet applicable Prevention of Significant Deterioration limits, whichever is more restrictive. “

**D. Operational Limitation:**

The Permittee shall only burn No. 2 fuel oil unless the Permittee applies for and receives an approval or permit from the Department to burn an alternate fuel. **[Reference: COMAR 26.11.02.09A].**

**CONSTELLATION POWER SOURCE GENERATION, LLC  
 PHILADELPHIA ROAD GENERATING STATION  
 3914 PULASKI HIGHWAY, BALTIMORE, MD 21224  
 2018 PART 70 OPERATING PERMIT NO. 24-510-0265**

**Table IV – 1**

|            |   |
|------------|---|
| <b>1.2</b> | <p><b><u>Testing Requirements:</u></b></p> <p>A. <u>Control of Visible Emissions</u><br/>See Monitoring Requirement.</p> <p>B. <u>Control of Sulfur Oxides</u><br/>See Monitoring Requirement.</p> <p>C. <u>Control of Nitrogen Oxides</u><br/>The Permittee shall perform a combustion analysis and optimize combustion at least once annually when the turbines operate for more than 500 hours in a calendar year. <b>[Reference: COMAR 26.11.09.08G(1)(b)].</b> If the Permittee operates a turbine in excess of 15 percent capacity factor, the Permittee shall demonstrate compliance with the 65-ppm limit by performing an EPA Reference Method Test within 120 days after exceeding the 15 percent capacity factor. The Permittee shall submit a test protocol to the Department for approval at least 30 days prior to the proposed test date. <b>[Reference: COMAR 26.11.03.06C].</b></p> <p>D. <u>Operational Limitation</u><br/>See Record Keeping Requirement.</p>  |
| <b>1.3</b> | <p><b><u>Monitoring Requirements:</u></b></p> <p>A. <u>Control of Visible Emissions</u><br/>The Permittee shall:</p> <ul style="list-style-type: none"> <li>(a) properly operate and maintain the combustion turbines in a manner to prevent visible emissions;</li> <li>(b) verify no visible emissions when burning No.2 fuel oil. An observer shall perform an EPA Reference Method 9 observation of stack emissions for a 6-minute period once for each 168 hours a combustion turbine operates.</li> </ul> <p>The Permittee shall perform the following if visible emissions are observed:</p> <ul style="list-style-type: none"> <li>(a) inspect combustion turbine operations;</li> <li>(b) perform all necessary adjustments and/or repairs to the combustion turbine within 48 operating hours so that visible emissions are eliminated;</li> <li>(c) document in writing the results of the inspections, adjustments and/or repairs to the combustion turbine; and</li> <li>(d) if the required adjustments and/or repairs had not eliminated the visible emissions within the stipulated 48 operating hours, the Permittee shall perform a Method 9 observation once daily for 18 minutes until corrective action has eliminated the visible emissions.</li> </ul> <p><b>[Reference: COMAR 26.11.03.06C]</b></p> |

**CONSTELLATION POWER SOURCE GENERATION, LLC  
 PHILADELPHIA ROAD GENERATING STATION  
 3914 PULASKI HIGHWAY, BALTIMORE, MD 21224  
 2018 PART 70 OPERATING PERMIT NO. 24-510-0265**

**Table IV – 1**

|            |  |
|------------|--|
|            | <p><b>B. <u>Control of Sulfur Oxides</u></b><br/>         The Permittee shall obtain a certification from the fuel supplier indicating that the fuel oil is in compliance with the limitation on the sulfur content of the fuel oil or obtain sulfur in fuel analyses of oil that is representative of the oil burned. <b>[Reference: COMAR 26.11.03.06C]</b></p> <p><b>C. <u>Control of Nitrogen Oxides</u></b><br/>         The Permittee shall calculate the capacity factor of each combustion turbine at the end of each month. <b>[Reference: COMAR 26.11.03.06C].</b></p> <p><b>D. <u>Operational Limitation</u></b><br/>         See Record Keeping Requirement</p>  |
| <b>1.4</b> | <p><b><u>Record Keeping Requirements:</u></b><br/> <b>Note:</b> All records must be maintained for a period of at least 5 years. <b>[Reference: COMAR 26.11.03.06C(5)(g)]</b></p> <p><b>A. <u>Control of Visible Emissions</u></b><br/>         The Permittee shall maintain for at least five years the following:<br/>         (a) an operation manual and preventive maintenance plan;<br/>         (b) records of maintenance performed on the combustion turbines that relate to preventing visible emissions;<br/>         (c) log of visible emission observations performed and make it available to the Department's representative upon request, and<br/>         (d) record of the hours that No. 2 fuel oil is burned.<br/> <b>[Reference: COMAR 26.11.03.06C]</b></p> <p><b>B. <u>Control of Sulfur Oxides</u></b><br/>         The Permittee shall maintain records of fuel supplier's certification or sulfur in fuel analyses and shall make records available to the Department upon request. <b>[Reference: COMAR 26.11.09.07C].</b></p> <p><b>C. <u>Control of Nitrogen Oxides</u></b><br/>         The Permittee shall:<br/>         (1) Maintain the results of the combustion analysis performed when the hours of operation exceeds 500 hours. <b>[Reference: COMAR 26.11.09.08G(1)(c)].</b><br/>         (2) Retain records of training program attendance for each operator for at least 5 years. <b>[Reference: COMAR 26.11.09.08G(1)(e)].</b><br/>         (3) Retain records of the calculated capacity factors. <b>[Reference: COMAR 26.11.03.06C].</b></p> |



**CONSTELLATION POWER SOURCE GENERATION, LLC  
 PHILADELPHIA ROAD GENERATING STATION  
 3914 PULASKI HIGHWAY, BALTIMORE, MD 21224  
 2018 PART 70 OPERATING PERMIT NO. 24-510-0265**

| <b>Table IV – 1</b> |   |
|---------------------|---|
|                     | <p><b>D. <u>Operational Limitation</u></b><br/>           The Permittee shall maintain a record of the hours of operation for each combustion turbine. <b>[Reference: COMAR 26.11.03.06C].</b></p>  |
| <b>1.5</b>          | <p><b><u>Reporting Requirements:</u></b></p> <p><b>A. <u>Control of Visible Emissions</u></b><br/>           The Permittee shall report incidents of visible emissions in accordance with Section III Condition 4 “Report of Excess Emissions and Deviations” <b>[Reference: COMAR 26.11.01.07 &amp; COMAR 26.11.03.06C(7)]</b></p> <p><b>B. <u>Control of Sulfur Oxides</u></b><br/>           The Permittee shall report fuel supplier certification or a copy of the sulfur in fuel analyses to the Department upon request. <b>[Reference: COMAR 26.11.09.07C].</b></p> <p><b>C. <u>Control of Nitrogen Oxides</u></b><br/>           The Permittee shall:<br/>           (1) Provide certification of the capacity factor of the equipment to the Department in writing as part of the April 1 certification report. <b>[Reference: COMAR 26.11.09.08G(1)(a) &amp; COMAR 26.11.03.06C]</b><br/>           (2) Submit a record of the training program attendance for each operator to the Department upon request. <b>[Reference: COMAR 26.11.09.08G(1)(e)].</b></p> <p><b>D. <u>Operational Limitation</u></b><br/>           The Permittee shall report the monthly hours of operation for the combustion turbines to the Department in the annual emission certification report due on April 1 of each year. <b>[Reference: COMAR 26.11.03.06C]</b></p> |

**A permit shield shall cover the applicable requirements of the Clean Air Act that are listed in the table above**

**CONSTELLATION POWER SOURCE GENERATION, LLC  
PHILADELPHIA ROAD GENERATING STATION  
3914 PULASKI HIGHWAY, BALTIMORE, MD 21224  
2018 PART 70 OPERATING PERMIT NO. 24-510-0265**

**SECTION V      INSIGNIFICANT ACTIVITIES**

This section provides a list of insignificant emissions units that were reported in the Title V permit application. The applicable Clean Air Act requirements, if any, are listed below the insignificant activity.

- (1) No. 2      Stationary internal combustion engines with an output less than 500 brake horsepower (373 kilowatts) and which are not used to generate electricity for sale or for peak or load shaving;

The *affected units* are subject to the following requirements:

- (A) COMAR 26.11.09.05E(2), Emissions During Idle Mode: The Permittee may not cause or permit the discharge of emissions from any engine, operating at idle, greater than 10 percent opacity.
- (B) COMAR 26.11.09.05E(3), Emissions During Operating Mode: The Permittee may not cause or permit the discharge of emissions from any engine, operating at other than idle conditions, greater than 40 percent opacity.
- (C) Exceptions:
  - (i) COMAR 26.11.09.05E(2) does not apply for a period of 2 consecutive minutes after a period of idling of 15 consecutive minutes for the purpose of clearing the exhaust system.
  - (ii) COMAR 26.11.09.05E(2) does not apply to emissions resulting directly from cold engine start-up and warm-up for the following maximum periods:
    - (a) Engines that are idled continuously when not in service: 30 minutes
    - (b) all other engines: 15 minutes.
  - (iii) COMAR 26.11.09.05E(2) & (3) do not apply while maintenance, repair or testing is being performed by qualified mechanics.

**CONSTELLATION POWER SOURCE GENERATION, LLC  
PHILADELPHIA ROAD GENERATING STATION  
3914 PULASKI HIGHWAY, BALTIMORE, MD 21224  
2018 PART 70 OPERATING PERMIT NO. 24-510-0265**

- (2) Containers, reservoirs, or tanks used exclusively for:
- (a)  Storage of Numbers 1, 2, 4, 5, and 6 fuel oil and aviation jet engine fuel;
  - (b) No. 4 Storage of lubricating oils;
  - (c) No. 2 The storage of VOC normally used as solvents, diluents, thinners, inks, colorants, paints, lacquers, enamels, varnishes, liquid resins, or other surface coatings and having individual capacities of 2,000 gallons (7.6 cubic meters) or less;
- (3)  Comfort air conditioning subject to requirements of Title VI of the Clean Air Act;

**CONSTELLATION POWER SOURCE GENERATION, LLC  
PHILADELPHIA ROAD GENERATING STATION  
3914 PULASKI HIGHWAY, BALTIMORE, MD 21224  
2018 PART 70 OPERATING PERMIT NO. 24-510-0265**

**SECTION VI STATE-ONLY ENFORCEABLE CONDITIONS**

The Permittee is subject to the following State-only enforceable requirements:

1. Applicable Regulations:

**COMAR 26.11.06.08 - Nuisance**

“An installation or premises may not be operated or maintained in such a manner that a nuisance or air pollution is created. Nothing in this regulation relating to the control of emissions may in any manner be construed as authorizing or permitting the creation of, or maintenance of, nuisance or air pollution.”

**COMAR 26.11.06.09 - Odors**

“A person may not cause or permit the discharge into the atmosphere of gases, vapors, or odors beyond the property line in such a manner that a nuisance or air pollution is created.”

2. Record Keeping and Reporting:

The Permittee shall submit to the Department, by April 1 of each year during the term of this permit, a written certification of the results of an analysis of emissions of toxic air pollutants from the Permittee’s facility during the previous calendar year. The analysis shall include either:

- (a) a statement that previously submitted compliance demonstrations for emissions of toxic air pollutants remain valid; or
- (b) a revised compliance demonstration, developed in accordance with requirements included under COMAR 26.11.15 & 16, that accounts for changes in operations, analytical methods, emissions determinations, or other factors that have invalidated previous demonstrations.