



**CITY OF PHILADELPHIA  
DEPARTMENT OF PUBLIC HEALTH  
AIR MANAGEMENT SERVICES**

**RACT PLAN APPROVAL**

Effective Date: February 9, 2016

Expiration Date: None

Replaces Permit No. RACT Plan Approval issued on January 9, 2015

In accordance with provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and after due consideration of a Reasonably Available Control Technology (RACT) proposal received under the Pennsylvania Code, Title 25, Chapter 129.91 thru 129.95, of the rules and regulations of the Pennsylvania Department of Environmental Protection (PADEP), Air Management Services (AMS) approved the RACT proposal of the Facility below for the source(s) listed in section 1.A. Emission Sources of the attached RACT Plan Approval.

Facility: Veolia Energy Philadelphia – Schuylkill Station  
Permittee: Veolia Energy Philadelphia, Inc  
Location: 2600 Christian Street, Philadelphia, PA 19146  
Mailing Address: 2600 Christian Street, Philadelphia, PA 19146  
SIC Code(s): 4961  
Plant ID: 4942  
Facility Contact: Floyd Ruppel  
Phone: (267) 350-5865  
Permit Contact: Floyd Ruppel  
Phone: (267) 350-5865  
Responsible Official: Michael J Smedley  
Title: VP and GM

A handwritten signature in blue ink, appearing to read "Edward Wiener".

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Edward Wiener, Chief of Source Registration

2/9/2016

Date

**The RACT plan approval is subject to the following conditions:**

1. The purpose of this Plan Approval is to establish Nitrogen Oxides (NO<sub>x</sub>) Reasonably Available Control Technology (RACT) for Veolia – Schuylkill Station. This includes the following emission sources and control equipment:

**A. Emission Sources**

- (1) Boiler #23: Combustion Engineering boiler with a capacity of 795 MMBTU/hr. The boiler is tangential fired and burns #6 oil as its primary fuel and #2 oil as an ignition fuel.
- (2) Boiler #26: Babcock and Wilcox boiler with a capacity of 761 MMBTU/hr. The boiler is front wall fired and burns #6 oil.

**B. Control Equipment**

- (1) Boiler #26 shall be modified with low NO<sub>x</sub> burners.

**2. This approval requires and authorizes:**

- A. Boiler #26 shall be modified with low NO<sub>x</sub> burners.

**3. Stack Emission Limitations**

- A. The maximum air contaminant emissions from these sources shall be limited at stack outlet to:

- (1) Nitrogen Oxides (NO<sub>x</sub>):
  - (a) Boiler #23: emissions shall not exceed any of the following:
    - i. 0.34 lbs/MMBTU on an hourly basis
    - ii. 270.30 lbs/hr on an hourly basis
    - iii. 355.15 tons per rolling 12-month period
  - (b) Boiler #26: emission rate shall not exceed any of the following:
    - i. 0.36 lbs/MMBTU on a 30-day rolling average
    - ii. 0.41 lbs/MMBTU on an hourly basis
    - iii. 312.01 lbs/hr on an hourly basis

**4. RACT Implementation Schedule**

- A. Upon issuance of this approval, Veolia shall begin immediate implementation of the measures necessary to comply with the approved RACT proposal.
- B. Veolia - Schuylkill Station shall begin installation of low NO<sub>x</sub> burners on Boiler #26 by May 31, 1996. Once construction has commenced, Boiler #26 shall not be operated until the installation is complete.

## 5. Testing and Monitoring Requirements

- A. Within 90 days of start-up and final construction acceptance of low NO<sub>x</sub> burners, Veolia - Schuylkill Station must conduct initial emissions performance tests of Boiler #26 to demonstrate compliance with the emission limit above. Veolia must conduct annual emission performance tests on Boiler #23 and Boiler #26.
- B. Veolia - Schuylkill Station shall obtain approval of the test protocol prior to the test date. AMS must be notified at least 30 days prior to the actual testing in order that representatives from the agency may schedule to observe the conduct of the tests.
- C. Continuous nitrogen oxides and oxygen monitors and recorders shall be operated on Boiler #26 in order to measure and record the concentrations of these gases emitted from the boiler outlet/stack inlet. The continuous emission monitors must conform to USEPA performance specifications in 40 CFR Part 60, Appendix B and Pa. DER Continuous Source Monitoring Manual Rev. No. 4, July 1987.

## 6. Recordkeeping and Reporting Requirements

- A. Compliance shall be monitored and recorded based on annual NO<sub>x</sub> stack tests for each boiler and NO<sub>x</sub> CEMS for Boiler #26. The facility shall monitor and record compliance with them based on daily hours of operation, fuel type, fuel usage, fuel sulfur content for each boiler, and NO<sub>x</sub> CEMs for boiler #26 and annual stack test for Boiler #23 compliance with them based on fuel usage and the annual NO<sub>x</sub> stack tests.
  - B. Veolia - Schuylkill Station shall maintain a file containing all the records and other data that are required to be collected to demonstrate compliance with NO<sub>x</sub> RACT requirements of 25 PA Code §129.91-129.94. These records shall include fuel consumption, fuel sulfur content, and NO<sub>x</sub> emissions.
  - C. The records shall provide sufficient data and calculations to clearly demonstrate that the requirements of §129.91-129.94 are met.
  - D. Data or information required to determine compliance shall be recorded and maintained in a time frame consistent with the averaging period of the requirement.
  - E. Records shall be retained for at least two years and shall be made available to AMS on request.
7. The operation of the aforementioned sources shall not at any time result in the emission of visible air contaminants in excess of the limitations specified in Section 123.41, particulate matter in excess of the limitations specified in Section 123.11 or sulfur oxides in excess of the limitations specified in Section 123.22, all Sections of Chapter 123 of Article III of the Rules and Regulations of the Department of Environmental Resources, or in the emission of any of these or any other type of air contaminant in excess of the limitations specified in, or established pursuant to, any other applicable rule or regulation contained in Article III.

8. The company shall not impose conditions upon or otherwise restrict AMS's access to the aforementioned source(s) and/or any associated air cleaning device(s) and shall allow AMS to have access at any time to said source(s) and associated air cleaning device(s) with such measuring and recording equipment, including equipment recording visual observations, as AMS deems necessary and proper for performing its duties and for the effective enforcement of the Air Pollution Control Act.
9. Revisions to any emission limitations incorporated in this RACT Approval will require resubmission as revision to the PA State Implementation Plan. The applicant shall bear the cost of public hearing and notification required for EPA approval as stipulated in 25 PA Code §129.91(h).