

PUBLIC NOTICE
PHILADELPHIA AIR MANAGEMENT SERVICES

NOTICE OF INTENT TO APPROVE THE INCREASE OF HEAT INPUT CAPACITY LIMITS OF SEVEN (7) HEATERS AT PHILADELPHIA ENERGY SOLUTIONS AND PROPOSED REVISION TO THE STATE IMPLEMENTATION PLAN TO MEET THE REQUIREMENTS OF REASONABLY AVAILABLE CONTROL TECHNOLOGY (RACT) SET FORTH BY THE CLEAN AIR ACT (CAA) UNDER THE 8-HOUR OZONE NAAQS

APPLICANT: Philadelphia Energy Solutions Refining and Marketing LLC (PES), formerly Sunoco, Inc. (R&M)

PLANT LOCATION: 3144 Passyunk Ave., Philadelphia, PA 19145

SOURCE DESCRIPTION: Petroleum Refinery

Philadelphia Energy Solutions Refining and Marketing LLC (PES), formerly Sunoco, Inc. (R&M), (3144 Passyunk Avenue Philadelphia, PA 19145) has submitted a plan approval application to replace hourly heat input capacity limits on seven (7) heaters with annual heat input limits and install Ultra Low-NO_x Burners (ULNBs) on two (2) of the heaters. The heaters are limited to refinery fuel gas with individual heat input limits that combine to 730.6 MMBTU/hr. The proposed annual heat input limits total 6,806,000 MMBTU per rolling 12-month period. The increase in potential emissions in the application due to the project are 140.1 tons of Nitrogen Oxides (NO_x), 23.2 tons of Volatile Organic Compounds (VOCs), 13.2 tons of both Particulate Matter with a diameter of 10 micrometers or less (PM₁₀) and Particulate Matter with a diameter of 2.5 micrometers or less (PM_{2.5}), 191.6 tons of Carbon Monoxide (CO), 7.1 tons of Sulfur Dioxide (SO₂), and Greenhouse Gases (GHGs) of 255,372 metric tons Carbon Dioxide equivalent (CO_{2e}), all on a rolling 12-month basis. The plan approval will contain work practice, testing, monitoring, recordkeeping, and reporting requirements to ensure operation within all applicable requirements.

The proposed changes to the following are also intended to meet the reasonably available control technology (RACT) requirements of the Clean Air Act (CAA) for the 1997 8-hour ozone National Ambient Air Quality Standard (NAAQS): the removal of the MMBTU/hr heat input limit for each heater, the addition of MMBTU heat input and NO_x emission limits per rolling 12-month period limit for each heater, the requirement to burn only refinery fuel gas for each heater, and the installation of the addition of ULNBs on two heaters. A more detailed description and analysis can be found in the Statement of Basis. The CAA requires Philadelphia to submit to the U.S. Environmental Protection Agency (EPA) a State Implementation Plan (SIP) revision demonstrating that Philadelphia has implemented all necessary Reasonably Available Control Technology (RACT) controls on all major stationary sources of volatile organic compounds (VOC) and oxides of nitrogen (NO_x). In 2006, Air Management Services (AMS) developed a

RACT SIP revision demonstrating that it implemented required RACT controls on all relevant stationary sources of VOC and NOx emissions and that all RACT plans previously approved by EPA under the 1-hour ozone NAAQS were applicable to represent RACT control levels under the new 8-hour ozone NAAQS. The SIP revision relied on the NOx SIP Call emissions trading program. On July 10, 2009, the D.C. Circuit Court determined that the NOx SIP Call did not meet the specific source RACT requirements as required by the CAA. Accordingly, any air pollution source installed prior to the adoption of the 1997 8-hour Ozone NAAQS that was applicable to the NOx SIP Call and did not have to install any controls in the original case-by-case RACT must now conduct a new case-by-case RACT determination to address any changes in technologies that occurred since the prior 1-hour Ozone NAAQS was adopted and implemented. Therefore, this notice is also intended to propose as a revision to the Philadelphia portion of the Pennsylvania SIP changes to NOx RACT controls for the seven (7) modified heaters in PES. For each of these heaters RACT is determined to be annual emission limits, throughput limits, refinery fuel gas burning, and, for two heaters, installation of ULNBs, as described above.

Copies of all documents and information concerning this plan approval and SIP revision are available for review in the offices of AMS, room 218, 321 University Ave., Philadelphia, PA 19104-4543 during normal business hours. Persons wishing to review these documents or to submit written comments should contact Ms. Karen Smith (215-685-7572) at the above address. All written comments must be received by January 13, 2014. Comments received by facsimile will not be accepted.

If requested, the Philadelphia Department of Public Health, Air Management Services (AMS) will conduct a public hearing to receive comments on the preliminary determination to approve the application (Plan Approval No. 12195) at the following time and location:

Date: **Monday, January 13, 2014**
Time: **7:00 p.m.**
Location: **Mercy Wellness Center (2nd Floor)
2821 S. Island Avenue
(Island Ave. & Lindbergh Blvd.)
Philadelphia, Pa. 19153**

Persons wishing to request a public hearing must submit the request in writing to Source Registration, Air Management Services, 321 University Ave., Philadelphia, PA 19104-4543 by January 13, 2014. If AMS does not receive any requests for a public hearing by this date, it will be cancelled. To find out if the public hearing will be held, please visit the AMS web site at <http://www.phila.gov/health/AirManagement/index.html> or call AMS at 215-685-7572.