

combustion turbine unit; and one (1) oil-fired emergency diesel generator.

NO<sub>x</sub> RACT for each boiler (boiler 1, 2, 3, and 4) will be bias firing with an annual capacity factor not to exceed 65.1 percent. Based upon a nominal heat input of 286.5 MMBtu/hr, each boiler shall be limited to an annual heat input of 1.634 million MMBtu/year on a 12-month rolling basis. Each boiler shall be operated and maintained in accordance with the manufacturer's specifications and good air pollution control practices. Combined emissions from Boilers 1, 2, 3, and 4 shall not exceed 2025.9 tpy. All annual limits must be met on a rolling monthly basis over every consecutive 12-month period. NO<sub>x</sub> emissions from Boilers 1, 2, 3, and 4 combined, shall not exceed 0.62 lb/MMBtu based on a 30-day rolling average. A CEMS shall be operated and maintained to monitor NO<sub>x</sub> emissions from the four boilers. All four boilers shall exhaust into a common stack containing a single CEMS. The CEMS shall comply with 25 PA Code, Chapter 139, and the requirements of the Continuous Source Monitoring Manual.

NO<sub>x</sub> RACT for the combustion turbine shall be the operation and maintenance in accordance with the manufacturer's specifications with an annual limit on NO<sub>x</sub> emissions of 400 tons on a 12-month rolling basis. When burning natural gas in the combustion turbine, the emissions rate shall not exceed 0.499 lb/MMBtu. The heat input shall not exceed  $2.005 \times 10^{12}$  BTU/yr or  $1.944 \times 10^9$  CF/yr., and the annual capacity factor shall not exceed 18.3 percent on a heat input basis. When burning No. 2 oil in the combustion turbine, the emissions rate shall not exceed 0.9 lb/MMBtu. The heat input shall not exceed  $1.091 \times 10^{12}$  BTU/yr or 7,905,000 gal/yr., and the annual capacity factor shall not exceed 9.98 percent on a heat input basis. For each gallon of No. 2 fuel oil used, the natural gas limit in the above statement shall decrease by 246 cubic feet. The turbine shall also be operated and maintained in accordance with the manufacturer's specifications and good air pollution control practices. Compliance with the short-term NO<sub>x</sub> emission limit for the combustion turbine shall be established based on the average of three (3) one-hour stack tests. Prior to testing, the procedure shall be approved by the Department, with at least two weeks notice given of the date and time of the test. By September 30, 2002, stack tests shall have been performed in accordance with the provisions of 25 PA Code, Chapter 139 to show compliance with the short-term NO<sub>x</sub> emission limit. Within 60 days after the test, two copies

of the completed test report, including all operating conditions, shall be submitted to the Department for approval.

Within 30 days after the end of each calendar quarter, quarterly reports shall be submitted to the Department to show compliance with the RACT requirements for Boilers 1, 2, 3, and 4 and the combustion turbine.

NO<sub>x</sub> RACT for the emergency diesel generator shall be the installation, maintenance and operation of the source in accordance with the manufacturer's specifications and good air pollution control practices, in accordance with the presumptive RACT emission limitations as specified under 25 PA Code, Chapter 129, section 129.93(c)(5). The generator shall not exceed an operating schedule of 500 hours in a consecutive 12-month period. Within 30 days of the end of the calendar year, the owner or operator shall submit annual operating reports to show compliance with the RACT requirements for the emergency diesel generator.

VOC RACT for all sources shall be the operation and maintenance in accordance with the manufacturer's specifications and good air pollution control practices. Fugitive evaporative sources of VOCs shall comply with the requirements of 25 PA Code, sections 129.51, 129.54–129.72, 129.81, and 129.82, as applicable.

#### *E. Pennsylvania Power & Light Company-Sunbury SES*

Pennsylvania Power & Light Company's (PP&L) Sunbury Steam Electric Station (SES) is located in the Borough of Shamokin, Snyder County, Pennsylvania. PP&L's Sunbury Power Station is a major NO<sub>x</sub> and VOC emitting facility. In this instance, RACT has been established and imposed by the PADEP in an OP. On July 2, 2003, PADEP submitted OP–55–0001A to EPA as a SIP revision. This operating permit incorporates RACT determinations for NO<sub>x</sub> and VOC for the following sources at the Sunbury facility: Four (4) arch fired boilers 1A, 1B, 2A, and 2B; two (2) front wall-fired steam generators, Boilers 3 and 4; two (2) combustion turbine generators; and two (2) diesel generators.

Pursuant to the RACT provisions of 25 PA Code, Chapter 129, sections 129.91–95, Units 1A, 1B, 2A, and 2B shall be operated and maintained in accordance with the manufacturer's specifications and good air pollution control practice. The NO<sub>x</sub> emissions from Units 1A, 1B, 2A, and 2B shall not exceed the following limits: NO<sub>x</sub> emissions from Stack #1 (Boilers 1A and

1B) shall not exceed 1.10 lb/MMBtu, based on a 30-day rolling average; NO<sub>x</sub> emissions from Stack #2 (Boilers 2A and 2B) shall not exceed 1.16 lb/MMBtu, based on a 30-day rolling average; NO<sub>x</sub> emissions from Unit #3 shall not exceed .50 lb/MMBtu based on a 30-day rolling average and NO<sub>x</sub> emissions from Unit #4 shall not exceed .50 lb/MMBtu based on a 30-day rolling average. VOC RACT for Units 1A, 1B, 2A, 2B, 3, and 4 shall be in accordance with the manufacturers' specifications and good air pollution control practices.

NO<sub>x</sub> and VOC RACT for the two combustion turbines shall be the operation and maintenance in accordance with the manufacturer's specifications and good air pollution control practices. Additionally, the capacity factor of each of these turbines shall be less than 50 percent for any consecutive 12-month period.

NO<sub>x</sub> and VOC RACT for the two diesel generators at the facility shall be the operation and maintenance in accordance with the manufacturer's specifications and good air pollution control practices. These generators shall be operated less than 500 hours in a consecutive 12-month period. PP&L's Sunbury Station shall maintain records in accordance with the recordkeeping requirements of 25 PA Code, Chapter 129, section 129.95, and shall include, at a minimum, the following: (a) Data which clearly demonstrates the capacity factor of the combustion turbines (which shall include, but not necessarily be limited to, the number of hours each turbine operates in each month), (b) the number of hours per month that each diesel generator is operated, and (c) all NO<sub>x</sub> emissions data generated for Units 1A, 1B, 2A, 2B, 3, and 4, using continuous NO<sub>x</sub> emission monitoring systems as specified in 25 PA Code, Chapter 139. These records shall be retained for at least 2 years and shall be made available to the Department upon request except for the NO<sub>x</sub> emission data generated by the continuous NO<sub>x</sub> emission monitoring systems which shall be submitted in accordance with the applicable requirements specified in 25 PA Code, Chapter 139, "Sampling and Testing", and the Department's "Continuous Source Monitoring Manual."

PP&L's Sunbury Station shall operate and maintain continuous NO<sub>x</sub> emissions monitoring systems on Units 1A, 1B, 2A, 2B, 3, and 4, in accordance with all applicable requirements of 25 PA Code, Chapter 139, "Sampling and Testing," and the Department's "Continuous Source Monitoring Manual."