



- (5) The following Operating Permits are issued for this facility and will be incorporated into this Operating Permit upon revision of the SIP.

Permit Number	Source	Air Cleaning Device
39-302-111	Two (2) 69.5 MMBTU/HR Boilers, Gas/oil fired	None
39-302-141	One (1) 36.9 MMBTU/HR Boiler, Gas/Oil fired	None

- (6) This Operating Permit includes Reasonable Available Control Technology (RACT) determinations for the following sources as required by Title I of the CAAA:

(A) SOURCES FOR NO<sub>x</sub>:

- (a) Boilers #1 & #2 are manufactured by Babcock & Wilcox, each have rated capacity of 69.5 MMBTU per hour; and are fired by Natural gas and #6 fuel oil.
- (b) Boiler #3 is manufactured by Cleaver Brooks, its rated capacity is 36.9 MMBTU per hour; and it is fired by Natural gas and #6 fuel oil.
- (c) Boiler #4 is manufactured by Erie City and is a grandfathered source. Its rated capacity is 50.0 MMBTU per hour; and it is fired by Natural gas and #6 fuel oil.

- (d) Boilers #5 & #6 are manufactured by Johnston, and each have rated capacity of 10.5 MMBTU per hour; and are fired by Natural gas and #2 fuel oil.
- (e) Four (4) emergency generators driven by diesel engine are fired by #2 fuel oil. The rated capacity of each diesel engine is as follows:

- Emergency Generator #1 - 905 horsepower.
- Emergency Generator #2 - 670 horsepower.
- Emergency Generator #4 - 1341 horsepower.
- Emergency Generator #5 - 201 horsepower.

(B) SOURCES FOR VOCs:

- (a) Building #30 in the manufacturing area contains:

- (1) BIC II/MOS II
- (2) MOS JIT/BIC JIT
- (3) MASK SHOP

- (b) Building #31 in the manufacturing area contains:

- (1) MOS V and MOS Annexure

- (c) Building #60 and #61 contain the Silicon Material area.

- (7) The two (2) Babcock & Wilcox boilers (Boiler #1 & #2), one (1) Cleaver Brook boiler (Boiler #3) and one (1) Erie City boiler (Boiler #4) are regulated under the combined NOx emission cap by restricting fuel use as follows:

- (a) All four boilers shall combust less than six hundred (600) million cubic feet of natural gas per year and one million, two hundred fifty thousand (1,250,000) gallons of #6 fuel oil per year. (12 month rolling average).
- (b) The combined emission from the combustion of natural gas for these four boilers shall be less than thirty two (32) pounds of NOx per hour, and with a maximum limit of 42.0 tons of NOx per year.
- (c) The combined emissions from the combustion of #6 fuel oil for these four boilers shall be less than eighty four (84) pounds of NOx per hour, and with a maximum limit of 34.4 tons of NOx per year.

- (d) The combined emission limit for all four boilers with the burning of natural gas and #6 fuel oil shall be 76.4 tons of NOx per year.
  - (e) This emission averaging report must be calculated on a monthly basis and submitted quarterly.
  - (f) Each shipment of #6 fuel oil must be certified by the fuel supplier.
- (8) The two (2) Johnston boilers (Boiler #5 & #6), are regulated under the combined NOx emission cap by restricting fuel use as follows:
- (a) Both boilers shall combust less than one hundred (100) million cubic feet of natural gas per year and one hundred fifty thousand (150,000) gallons of #2 fuel oil per year. (12 month rolling average).
  - (b) The combined emissions from the combustion of natural gas for these two boilers shall be less than three (3) pounds of NOx per hour, and with a maximum limit of 7.0 tons of NOx per year.
  - (c) The combined emissions from the combustion of #2 fuel oil for these two boilers shall be less than three (3) pounds of NOx per hour, and with a maximum limit of 1.5 tons of NOx per year.
  - (d) The combined emission limit for these two boilers with the burning of natural gas and #2 fuel oil shall be 8.5 tons of NOx per year.
  - (e) This emission averaging report must be calculated on a monthly basis and submitted quarterly.
  - (f) Each shipment of #2 fuel oil must be certified by the fuel supplier.
- (9) All four Emergency Generators (#1, #2, #4 & #5), are regulated under the combined NOx emission cap by restricting the operation hours as follows:
- (a) Each Emergency Generator shall be operated less than two hundred (200) operation hours per year. (12 month rolling average).
  - (b) The combined emissions by combusting #2 fuel oil shall be less than 80 pounds of NOx per hour, and with a maximum limit of 7.7 tons of NOx per year. (12 month rolling average).

- (c) This emission averaging report must be calculated on a monthly basis and submitted quarterly.
  - (d) Each shipment of #2 fuel oil must be certified by the fuel supplier.
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- (11) The combined emission of NOx from the entire facility shall be less than 93.0 tons of NOx per year.
  - (12) The combined emission of VOCs from the manufacturing area of the building #30 and the building #31 shall be less than 456 pounds of VOC per day (24 hour basis) or 6.86 tons of VOC per month (30 days rolling average).
  - (13) The combined emission of VOCs from the entire facility shall be less than 84.0 tons of VOCs per year. This limit is including one (1) ton of VOCs emission per year from the combustion sources covered by this permit only.
  - (14) Recordkeeping and reporting requirements are as follows:

The company shall maintain a file containing all records and other data that are required to be collected pursuant to the various provisions of the operating permit, 25 PA Code Section 129.95, such that records provide sufficient data and calculations to clearly demonstrate that the requirements of PA Code Sections 129.91-94 are met. The file shall include, but not be limited to: Twelve month rolling average fuel usage rates by fuel type, NOx and VOC emission for each source, all air pollution control systems performance evaluations and records of calibration checks, adjustments and maintenance performed on all equipment which is subject to this operating permit. Chemical inventory tracking system, mass balance technique and usage and disposal records. All measurements, records and other data required to be maintained by the company shall be retained for at least two years following the date on which such measurements, records or data are recorded.
  - (15) If requested by the Department, the company shall perform a stack test for the combustion sources in accordance with the provision of Chapter 139 of the Rules and Regulations of the Department of Environmental Resources within the time specified by the Department.

- (16) The expiration date shown on this Operating Permit is for State purposes. For Federal Enforcement purposes, the RACT portion of this Operating Permit shall remain in effect as part of the State Implementation Plan (SIP) until replaced pursuant to 40 CFR 51.4 and approved by the US Environmental Protection Agency (EPA). The Operating Permit shall become enforceable by the US EPA upon its approval of the above as a revision to the SIP.
- (17) Any notification required as a result of any condition herein should be directed to:

Thomas A. DiLazaro  
Program Manager  
Department of Environmental Resources  
Air Quality Program  
2, Public Square  
Wilkes-Barre, PA 18711-0790