

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
FIELD OPERATIONS - BUREAU OF AIR QUALITY

OPERATING PERMIT

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 an application received under Chapter 127 of the rules and regulations of the Department of Environmental Protection, the Department hereby issues this permit for the operation of the air contamination source(s) described below:

Permit No.	<u>OP-46-0071</u>	Source(s)	<u>Facility NOx and VOC Sources</u>
Owner	<u>Quaker Chemical Corporation</u>	Air	<u></u>
Address	<u>Elm and Lee Streets</u>	Cleaning	<u></u>
	<u>Conshohocken, PA 19428-0809</u>	Device	<u></u>
Attention	<u>Mr. Armando E. Moral</u>	Location	<u>Elm and Lee Streets</u>
	<u>Plant Manager</u>		<u>Whitemarsh Township</u>
			<u>Montgomery County</u>

This permit is subject to the following conditions:

1. That the source(s) and any associated air cleaning devices are to be:
 - a. operated in such a manner as not to cause air pollution;
 - b. operated and maintained in a manner consistent with good operating and maintenance practices.
2. This permit is valid only for the specific equipment, location and owner named above.

(SEE ADDITIONAL CONDITIONS ATTACHED)

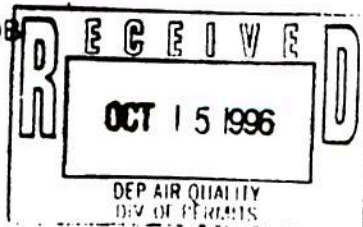
Failure to comply with the conditions placed on this permit is a violation of Section 127.444. Violation of this or any other provision of Article III of the rules and regulations of the Department of Environmental Protection will result in suspension or revocation of this permit and/or prosecution under Section 9 of the Air Pollution Control Act.

Issued 09/26/1996


Francine Carlini
Regional Manager
Air Quality

Expires ~~09/26/2001~~

cc: Division of Permits, RCSOB
Administration
SEFO
Re (KAL)166.1



COMPLIANCE PERMIT CONDITIONS
PERMIT NO. OP.46-0071
QUAKER CHEMICAL CORPORATION

CONDITIONS (CONTINUED):

3. This operating permit is issued to the owner and operator for the operation of the following sources:
- A. Boiler House Boilers No. 1 and No. 2, each rated at 29.4 million Btu per hour firing natural gas and No. 6 fuel oil.
 - B. Combustion Units and Combustion Sources firing natural gas only:

Building 4 Hot Oil Heater, rated capacity: 5 million Btu per hour (output); Administration Building Boiler, rated capacity: 1 million Btu per hour; CTC West Boiler No. 1, rated capacity: 1.5 million Btu per hour; CTC East Boiler No. 2, rated capacity: 0.6 million Btu per hour; CTC East Boiler No. 1, rated capacity: 0.6 million Btu per hour; CTC West Boiler No. 2, rated capacity: 1.5 million Btu per hour; CTC Hot Water Heater, rated capacity: 0.3 million Btu per hour,
 - C. Administration Building Generator, rated capacity: 1.413 million Btu per hour firing natural gas.
 - D. Fire Pump, rated capacity: 150 hp firing diesel.
 - E. VOC de minimus sources:
 - 1. Pilot Plant including operations/scrubber, bearing coater spray booth, panel prep fume hood and combustion test chamber;
 - 2. QA & main laboratory hoods;
 - 3. Building 4 material storage vessels;
 - 4. fuel oil storage tanks;
 - 5. C Tank Farm;
 - 6. Sparkler Filter Mixing System;
 - 7. B Tank Farm;
 - 8. Combustion Units.
4. The expiration date shown on the Operating Permit is for state purposes. For Federal enforcement purposes the RACT provisions of the Operating Permit shall remain in effect as part of the State Implementation Plan (SIP) until replaced pursuant to 40 CFR 51 and approved by the U.S. Environmental Protection Agency (EPA). The Operating Permit shall become enforceable by the U.S. EPA upon its approval of the above as a revision to the SIP.
6. Operating Requirements for the Boiler House Boilers No. 1 and No. 2:
- A. The Company shall properly maintain the boiler by following the steps listed below:
 - 1. The Company shall conduct an annual adjustment or tune-up on the combustion unit. This adjustment shall include, but not limited to the following:
 - a. Inspection, adjustment, cleaning or replacement of fuel-burning equipment, including the burners and moving parts necessary for proper operation as specified by the manufacturer.

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CONDITIONS (CONTINUED):

- b. Inspection of the flame pattern or characteristics and adjustments necessary to minimize total emissions of NO, and to the extent practicable minimize emissions of CO.
 - c. Inspection of the air-to-fuel ratio control system and adjustments necessary to ensure proper calibration and operation as specified by the manufacturer.
 2. The company shall record each adjustment conducted under the procedures in paragraph (a) in a permanently bound log book or other method approved by the Department. This log shall contain, at a minimum, the following information:
 - a. The date of the tuning procedure.
 - b. The name of the service company and technicians.
 - c. The final operating rate or load.
 - d. The final CO and NO_x emission rates.
 - e. The final excess oxygen rate.
 - B. The company shall maintain the following records for the fuels used in the boilers:
 1. A certification from the fuel supplier of the type of fuel;
 2. A certification from the fuel supplier of the nitrogen content of the fuel;
 3. The identification of the sampling method and sampling protocol.
7. The company shall operate and maintain the sources specified in Condition 3 B, C and D above in accordance with the manufacturers' specifications and good air pollution control practices.
8. The operation of the generator and the fire pump shall not exceed 500 hours per year each. The company shall record the dates and operating hours for each of the generator and the fire pump.
9. The company shall keep the following information for each of the sources specified in Condition 3E above:
 - A. The throughput or usage of each chemical processed in the sources.
 - B. The VOC contents of the chemicals and their Material Safety Data Sheets (MSDS).
 - C. Quantity of coatings applied through the spray booth and the composition of each coating and their MSDS.
 - D. Any additional data or records the department may require to conform with 25 Pa. Code §129.95(e).

(KAL)166.2

