

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

JUN 22 1998

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-23-0016</u>	Source(s)	<u>Facility NO_x RACT</u>
Owner	<u>PQ Corporation</u>	Air	<u></u>
Address	<u>1201 W. Front Street</u>	Cleaning	<u></u>
	<u>Chester, PA 19013</u>	Device	<u></u>
Attention	<u>Ms. Kimberly A. Tzap</u>	Location	<u>City of Chester</u>
	<u>Environmental, Health and</u>		<u>Delaware County</u>
	<u>Safety Supervisor</u>		<u></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. in compliance with the specifications and conditions of all the applicable plan approvals issued;
 - c. 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 06/16/1998

~~Expires~~ 06/15/2003


Francine Carlini
Regional Manager
Air Quality

cc: Division of Permits, RCSOB
Administration
SEFO
Re (SC)232-13

OPERATING PERMIT CONDITION
PERMIT NO. OP-23-0016
PQ CORPORATION

CONDITIONS (continued):

3. This Operating Permit includes Reasonably Available Control Technology (RACT) determinations as required by Title I provisions of the CAAA, and, 25 PA Code Sections 129.91 through 129.95 for a sodium silicate furnace, a potassium silicate furnace, Vapower boiler and spray dryer.
4. The RACT for the No. 4 sodium silicate furnace shall be the operation of the furnace with low excess air and sealed burners.
5. The No. 4 Sodium Silicate Furnace shall not emit more than 8 pounds of nitrogen oxides (NOx) per ton of glass produced from this furnace.
6. The nitrogen oxides emissions from the No. 4 sodium silicate furnace shall not exceed 275 tons per year on a 12 month rolling basis.
7. The nitrogen oxides emissions from the facility shall not exceed 368 tons per year on a 12 month rolling basis.
8. The company shall perform an annual stack test on the No. 4 sodium silicate furnace. All such testing shall be conducted in accordance with the provisions of Chapter 139 of Article III of the Rules and Regulations of the Department of Environmental Protection and any other requirements which may be established by the Department. ~~The frequency of these tests may be revised by the Department based on the test results.~~
9. The company shall continuously monitor flame pattern, crown temperature, and monitor daily the oxygen levels of the No. 4 sodium silicate furnace. These parameters shall be controlled in such a manner as to minimize nitrogen oxides generation.
10. The Vapower boiler and spray dryer shall be maintained, and operated in accordance with manufacturers specifications and good air pollution control practices. The Vapower boiler shall be tuned annually.
11. The No. 2 potassium silicate furnace shall be maintained and operated in accordance with manufacturers specifications and good air pollution control practices. The oxygen level shall be recorded once per shift. The company shall monitor NOx emissions two times a year, providing the furnace is running, using an ENERAC 2000E portable monitor. The furnace burners will be cleaned, packed and adjusted at the beginning of each startup.

OPERATING PERMIT CONDITIONS
PERMIT NO. OP-23-0016
PQ CORPORATION

CONDITIONS (continued):

12. Company shall maintain records in accordance with the minimum recordkeeping requirements of 25 Pa Code Section 129.95. At a minimum, this shall include:
 - a. Records shall provide sufficient data and calculations to clearly demonstrate that the requirements of Conditions 4 to 11 are met.
 - b. Data or information required to determine compliance with Conditions 4 to 11 shall be recorded and maintained in a time frame consistent with the averaging period of the requirements.
 - c. Records shall be retained for at least five years and made available to the Department upon request.
- ~~13.~~ The company shall within an hour of discovery notify the Department of any malfunction of the source(s) or associated air cleaning device(s) which results in, or may possibly be resulting in, the emission of air contaminants in excess of the limitations specified in, or established pursuant to, any applicable rule or regulation contained in Article III of the Rules and Regulations of the Department of Environmental Protection.
14. The expiration date shown on this RACT Operating Permit is for State purposes. For Federal Enforcement purposes the RACT provisions of this 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 US Environmental Protection Agency (EPA).
- ~~15.~~ If, at any time, the permittee causes, permits or allows any modification (as that term is defined in Chapter 121 of Title 25, the Rules and Regulations of the Department of Environmental Protection) of the aforementioned air contamination source(s), the operation and use of which is authorized by this permit, or causes, permits and allows any modifications, malfunction or removal of any air pollution control device required as a condition of this permit, then and in that event, this permit shall be suspended, and the permittee shall not thereafter continue to operate or use said air contamination source(s).
- ~~16.~~ The aforementioned source(s) may be operated and used only so long as any associated air pollution control devices are operated and maintained in accordance with the specifications set forth in the respective plan approval(s) and the RACT application (as approved by the Department), and in accordance with any conditions set forth herein.

OPERATING PERMIT CONDITIONS
PERMIT NO. OP-23-0016
PQ CORPORATION

CONDITIONS (continued):

- ~~17.~~ If at any time, it is determined that the operation of the aforementioned source(s) is causing the emission of visible air contaminants in excess of the limitations specified in Section 123.41, or malodorous air contaminants in excess of the limitations specified in Section 123.31, or is causing the emission of these contaminants or any other type of air contaminant in excess of the limitations specified in this permit and specified in, or established pursuant to, any other applicable rule or regulation contained in Article III, the owner shall take immediate steps, including the installation of additional air cleaning device(s), if necessary, to reduce the air contaminant emissions to within the applicable limitations.
- ~~18.~~ If, at any time, the Department has cause to believe that air contaminant emissions from the aforementioned source(s) may be in excess of the limitations specified in, or established pursuant to, any applicable rule or regulation contained in Article III of the Rules and Regulations of the Department of Environmental Protection, the company shall be required to conduct whatever tests are deemed necessary by the Department to determine the actual emission rate(s). Such testing shall be conducted in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection, where applicable, and in accordance with any restrictions or limitations established by the Department at such time as it notifies the company that testing required.
- ~~19.~~ This operating permit is valid for a limited period of time and may be renewed before its expiration. Requests for an operating permit renewal must be in writing and must be accompanied by the appropriate permit application processing and annual permit administration fees as specified in Section 127.703 of the Rules and Regulations of the Department of Environmental Protection. These fees shall be paid in the form of a check payable to the "Commonwealth of Pennsylvania-Clean Air Fund." The request should be made using the appropriate application form and must be received by the Department along with a completed Air Pollution Control Act Compliance Review form no later than 30 days prior to the expiration date of this permit.