

ILLINOIS POLLUTION CONTROL BOARD
January 4, 1979

STANADYNE, INC., CHICAGO DIVISION,)
)
 Petitioner,)
)
 v.) PCB 78-267
)
 ENVIRONMENTAL PROTECTION AGENCY,)
)
 Respondent.)

OPINION AND ORDER OF THE BOARD (by Mr. Goodman):

Stanadyne/Chicago Division, a division of Stanadyne, Inc., (Stanadyne) filed a petition for variance for its facility in Bellwood, Illinois on October 20, 1978. The Illinois Environmental Protection Agency (Agency) filed its recommendation in this matter on December 14, 1978. No hearing was held, and the Board has received no public comment in this case.

Stanadyne owns and operates a facility located in Bellwood, Illinois which manufactures a wide range of precision metal parts and employs between 1200 and 1300 people. As part of its production process, Stanadyne treats coils of hot rolled and annealed round bar steel stock by acid pickling with a subsequent coating of lime or "Gilron", a proprietary coating agent. Acid pickling is accomplished by soaking the coils in a 10%-15% sulfuric acid solution at elevated temperature. This process removes the mill scale and rust from the coils after which they are rinsed in water and then soaked in either a lime or "Gilron" bath that deposits a protective and/or lubricating coat on the metal surface. These coatings serve to inhibit further corrosion and to facilitate subsequent cold working.

The acid pickling tanks are served by a mechanical exhaust system of 29,000 CFM capacity through a 42" diameter exhaust stack leading to the building exterior. The lime and "Gilron" solutions are contained in tanks serviced by a mechanical exhaust fan of 17,500 CFM capacity.

Stanadyne has previously acquired an operating permit from the Agency with an expiration date of May 11, 1978. A 1978 application for renewal of the operating permit by Stanadyne was denied by the Agency which cited violations of Rules 203(a) and 204(f)(2)(B) of Chapter 2: Air Pollution Control Regulations (Regulations) as the reason for denial. Since Stanadyne does not consume over 1300 tons per year of sulfuric acid, Rule 204(f)(2)(B)(i) is applicable to the process. This rule limits emissions to 0.1 lbs/hr. for facilities whose usage is less than 1300 tons per year. Tests for sulfuric acid mist emissions made at Stanadyne during 1978 indicate an average emission of 4.375 lbs./hr. from one pickling tank, with total emissions from the operation being in excess of 8 lbs./hr.

Testing of the particulate emissions from the lime/Gilron tank indicated particulate emissions of 1.12 lbs./hr. The Agency used the lime slurry make-up of 198 lbs./hr. as the process weight rate and calculated an emission limitation pursuant to Rule 203(a) of the Regulations of 0.7381 lbs./hr. Although the Board does not necessarily ratify the Agency's method of calculation with respect to the emission of particulate matter in this case, Stanadyne does not challenge the result, and the record does not contain information sufficient for the Board to make its own determination of the process weight rate. In any event, Stanadyne proposes to bring the operation into compliance with Rules 203(a) and 204(f)(2)(B)(i) with the installation of a wet scrubber to serve the pickling tanks and the lime/Gilron tank. Stanadyne includes a proposed compliance time table as page 13 of their petition. The proposed compliance time table indicates a completion date of March 31, 1979, and envisions compliance by April 11, 1979.

In its recommendation the Agency indicates its opinion that the variance is warranted, but indicates that Stanadyne is about one month behind its proposed schedule at this time. In addition, the Agency states that the nearest monitor for particulates and sulfur dioxide is in Hillside, Illinois, approximately 2 to 3 miles from Stanadyne's facility. Although not indicative of Stanadyne's emissions, results at the Hillside station were well below the primary ambient air quality standards for both particulates and sulfur dioxide. Considering the hardship on Stanadyne, should it be forced to cease its present operation and go to a precoated purchased stock which would necessarily have to be stored indoors, and considering the apparent minimal environmental harm caused by the current emissions, the Board will grant the requested variance from May 11, 1978 until June 30, 1979 under certain conditions.

This Opinion constitutes the findings of facts and conclusions of law of the Board in this matter.

ORDER

It is the Order of the Pollution Control Board that Stanadyne/Chicago Division of Stanadyne, Inc., being currently unable to comply with certain of the Regulations of the Board, be granted variance from Rule 203(a) and Rule 204(f)(2)(B)(i) of Chapter 2: Air Pollution Regulations, subject to the following conditions:

- 1) Stanadyne shall execute the proposed compliance schedule as set forth on page 13 of their petition dated October 20, 1978, which timetable is incorporated by reference as if fully set forth herein, with final compliance to be achieved by June 30, 1979;
- 2) Stanadyne shall conduct stack tests for particulates and sulfuric acid within 30 days after installation of the emission control equipment;
- 3) Stanadyne shall apply for and obtain all necessary Agency construction and operating permits within 60 days of the date of this Order;
- 4) Stanadyne shall submit a status report to the Agency on the 15th day of each month, said status report to be sent to Environmental Protection Agency, Control Program Coordinator, 2200 Churchill Road, Springfield, Illinois 62706;
- 5) Stanadyne shall execute a performance bond in the amount of \$25,000.00 in a form satisfactory to the Agency, to assure compliance with the proposed control program. Said bond shall be submitted to the Agency at the address in subparagraph (4) above within 28 days of the date of this Order;
- 6) Within 45 days of the date of this Order, Stanadyne shall execute and forward to the Illinois Environmental Protection Agency at the address in subparagraph (4) above a Certification of Acceptance and Agreement to be bound to all terms and conditions of this Order. The 45 day period shall be held in abeyance during any period this matter is being appealed. The form of said certification shall be as follows:

CERTIFICATION

I (We), _____, having read and fully understanding the Order of the Illinois Pollution Control Board in PCB 78-267, hereby accept said Order and agree to be bound by all of the terms and conditions thereof.

SIGNED _____

TITLE _____

DATE _____

I, Christan L. Moffett, Clerk of the Illinois Pollution Control Board, hereby certify the above Opinion and Order were adopted on the 4th day of January, 1979 by a vote of 4-0.

Christan L. Moffett
Christan L. Moffett, Clerk
Illinois Pollution Control Board