

ILLINOIS POLLUTION CONTROL BOARD
November 10, 1976

QUALITY READY MIX CONCRETE COMPANY,)
)
 Petitioner,)
)
 v.) PCB 76-224
)
ENVIRONMENTAL PROTECTION AGENCY,)
)
 Respondent.)

OPINION AND ORDER OF THE BOARD (by Dr. Satchell):

This matter comes before the Pollution Control Board (Board) upon a petition for variance filed September 3, 1976. Two previous variances have been granted by the Board concerning the same process in PCB 75-73, 17 PCB 31 (1975) and PCB 75-383, 19 PCB 729 (1976). Quality Ready Mix Concrete Company (Quality) is seeking a five year extension of a variance from Rule 502(a) of the Chapter 2: Air Pollution Control Regulations (Regulations) in order to operate an air curtain destructor to burn certain wood wastes resulting from the stripping of old railroad cars. The Agency filed its recommendation on October 15, 1976.

The air curtain destructor site is located approximately one mile south of Fulton, Illinois. The nearest residence is some 800 feet from the site in an easterly direction. The Agency contacted the Whiteside County Sheriff's Office and the Mayor of the City of Fulton and found that neither Office had any complaints concerning Quality's past operations.

Petitioner states that the one way distance to the nearest landfill governed by an effective Agency operating permit is seventeen miles. Quality states that the cost of the transportation plus dumping fees imposes an unreasonable economic burden on the company. Quality further states that landfill personnel are reluctant to accept large volumes of relatively non-compressible material.

Quality states that it is planned that an average of ten cars per day will be burned. Each car contains an estimated twelve cubic yards of clean untreated lumber for disposal. About fifteen to twenty percent is good enough to salvage for reuse. Petitioner states that all burning should be done

within fifteen hours a week, giving Petitioner ample time to choose days best suited for burning. The air curtain destructor in use is a Model 200, manufactured by W. A. Kutrieb Inc. of Janesville, Wisconsin, purchased in 1975. In PCB 75-73 the destructor is stated to have a rated design capacity of 12 to 15 tons per hour; Petitioner at that time planned to burn at a rate of 10 tons per hour. The Agency recommendation states that based on estimates extracted from "The Effects of Operating Variables and Refuse Types from a Pilot Scale Trench Incinerator," Proceedings before the Incinerator Division of ASME, 1968 by J. O. Burckle, et al. that emissions from burning clean wood in an air curtain destructor would be 4.6 pounds per ton for particulate matter, 0.2 pounds per ton for hydrocarbon and 4.0 pounds per ton for nitrogen oxides. The Agency further states that the nearest Illinois ambient air quality monitoring locations East Moline and Sterling are too distant to be pertinent in this matter. The Agency has received information from the Iowa Department of Environmental Quality concerning ambient air quality monitoring in Clinton, Iowa. There are two monitoring sites that have been in operation for at least one year. They have shown annual geometric means for particulate matter of 59 and 82.5 micrograms per cubic meter. These sites are approximately four to six miles west of Quality's air curtain destructor location.

The Agency states that it finds the site in well maintained condition and the conditions justifying the prior variances are still in effect. The Agency recommends the grant of a variance for a five year period.

The Board finds that on the information presented, the Agency recommendation and the fact that Petitioner has apparently carried out the conditions of the prior variances in good faith that a variance should be granted to Petitioner for a period of five years subject to the conditions of PCB 75-73 and PCB 75-383.

This opinion constitutes the Board's findings of fact and conclusions of law.

ORDER

It is the order of the Pollution Control Board that Quality Ready Mix Concrete Company be granted variance from Rule 502(a) of the Air Pollution Control Regulations until September 2, 1981 in order to dispose of clean wood waste with an air curtain destructor, subject to the following conditions:

1. Only clean, unpainted and untreated lumber waste shall be incinerated, all other lumber and debris shall be separated prior to burning and disposed of by some other method.
2. An operator must be in attendance at all times when the air curtain destructor is in operation.
3. Feed to the destructor shall be adjusted so as to prevent any visible emissions from the destructor during burning.
4. Material used to promote combustion shall be of no lesser quality than #2 fuel oil.
5. Burning shall be conducted only on days when wind velocity is between 5 and 25 miles per hour.
6. Burning shall be conducted only between the hours of 8 a.m and 4 p.m. Quantities of material to be burned shall be restricted to an amount which can be consumed within these hours.
7. The burning site shall be provided with adequate fire protection and with such equipment as necessary to control accidental fires.
8. The air curtain destructor shall be operated in accordance with the manufacturer's operating instructions.
9. Within fourteen (14) days of this order Petitioner shall execute and forward to the Program Coordinator at:

Illinois Environmental Protection Agency
Division of Air Pollution Control
Control Program Coordinator
2200 Churchill Road
Springfield, Illinois 62706

the Certificate of Acceptance and Agreement to be bound by all the terms and conditions of the variance. 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 76-224 hereby accept said Order and agree to be bound by all of the terms and conditions thereof.

Signed by: _____

Title: _____

Date: _____

Mr. Dumelle dissented.

I, Christan L. Moffett, Clerk of the Illinois Pollution Control Board, hereby certify the above Opinion and Order were adopted on the 10th day of November, 1976 by a vote of 4-1.



Christan L. Moffett, Clerk
Illinois Pollution Control Board