

ILLINOIS POLLUTION CONTROL BOARD  
September 15 , 1976

CITY OF FREEPORT,	)	
	)	
Petitioner,	)	
	)	
v.	)	PCB 76-158
	)	
ENVIRONMENTAL PROTECTION AGENCY,	)	
	)	
Respondent.	)	

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

The City of Freeport filed a variance petition on May 20, 1976 requesting a variance from Rule 502(a) of the Chapter 2: Air Pollution Control Regulations (Regulations). An amended petition was filed on June 18, 1976. The Environmental Protection Agency (Agency) Recommendation was filed July 8, 1976 and an amendment was filed on July 26, 1976.

Freeport owns and operates a landfill site which is located approximately one mile south of the city limits. Freeport has operated a W. A. Kutrieb air curtain destructor adjacent to the landfill site since May of 1972 for the incineration of landscape wastes. The City seeks to burn clean waste lumber in the air curtain destructor in addition to the wastes that are presently being burned at the municipal landfill. Freeport seeks a variance from Rule 502(a) from April 26, 1976 until April 26, 1977.

The present operation was run with an earthen pit until March 1, 1976. At this time the Agency determined that work needed to be done on the pit for the operation to stay in compliance. Freeport then purchased and installed a permanent above ground pit and a new plenum chamber at a cost of more than \$15,000. The Agency has observed the operation of the air curtain destructor since its upgrading and has noted some minor problems such as minor amounts of smoke escaping from lower portions of the above ground pit. The Agency states that in all other respects the operation of the air curtain destructor seemed quite satisfactory.

Freeport requests to burn clean untreated lumber. The lumber if placed in the landfill is not compactable thus using additional space. The City if granted the variance could save its landfill space, saving additional expenditures on land. The City estimates it will burn approximately five to seven tons of lumber within approximately four to five hours. With a maximum of seven tons per day of clean lumber, the emission factors for an eight hour period would be:

<u>Contaminant</u>	<u>Emission Factor in lbs. per day</u>
Particulates	32.2
Carbon Monoxide	Not available
Hydrocarbons	1.75
Nitrogen Oxides	28.0

These figures were computed by the City from the information listed below.

<u>Contaminant</u>	<u>Emission Factor in lbs/ton</u>	
	<u>Open Burning</u>	<u>With Air Curtain</u>
Particulates	17	4.6
Carbon Monoxide	50	Not available
Hydrocarbons	4	0.25
Nitrogen Oxides	2	4.0

The information regarding emissions from open burning is taken from Compilation of Air Pollutant Emission Factors, AP-42, USEPA, April, 1973. The information regarding emissions from the use of an air curtain destructor is taken from "The Effects of Operating Variables and Refuse Types of the Emissions from a Pilot-Scale Trench Incinerator," Burkle, J. O., Dorsey, J. A., Riley, B. T., 1968 Proceeding ASME Incinerator Division.

Freeport is located in Air Quality Control Region 73 with the nearest monitoring station in Rockford, thirty miles to the east of Freeport. According to the Agency's 1975 Annual Air Quality Control Report, the suspended particulates, sulphur dioxide and nitrogen dioxide recorded at the monitoring site for this area, were well below the air quality standards (Petition at 2). The Agency considers the distance too far to make the information meaningful.

The Agency points out that although the quantity of burning and thus the duration of burning will increase, the severity of the emissions will not. The Agency states that there is no practical reason to oppose the granting of the variance as long as Freeport operates the air curtain destructor and maintains it in a prudent fashion. The Agency further recommended that the variance be granted for five years.

The Board agrees with the Agency. A variance will be granted for a period of five years to the City of Freeport subject to the conditions of the Order.

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

#### ORDER

The Pollution Control Board hereby grants the City of Freeport a variance from rule 502(a) of the Chapter 2: Air Pollution Control Regulations from April 26, 1976 to April 26, 1981. This allows Freeport to burn clean waste lumber in its air curtain destructor in addition to the landscape waste that is presently burned at the municipal landfill subject to the following conditions:

1. At any time the Air curtain destructor is being used, the City of Freeport shall comply with all standard operating conditions incorporated within the operating permit granted by the Agency.
2. The City of Freeport shall within fourteen (14) days of this Order seal the lower portions of the above ground burning chamber with dirt fill or other similar material in order to prevent the escape of visible emissions.
3. Within thirty-five (35) days of this Order Petitioner shall execute and forward to the Control Program Coordinator, a Certificate of Acceptance and Agreement to be bound to all terms and conditions of this Order. 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 76-158 hereby accept said Order and agree to be bound by all the terms and conditions thereof.

Signed by \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

IT IS SO ORDERED.

I, Christan L. Moffett, Clerk of the Illinois Pollution Control Board, hereby certify the above Opinion and Order were adopted on the 15<sup>th</sup> day of September, 1976 by a vote of 5-0.

  
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Christan L. Moffett, Clerk  
Illinois Pollution Control Board