

ILLINOIS POLLUTION CONTROL BOARD
September 11, 1986

IN THE MATTER OF:)
)
PARTICULATE EMISSION STANDARDS) R84-42
FOR CONTINUOUS AUTOMATIC)
STOKING PATHOLOGICAL WASTE)
INCINERATORS)

PROPOSED RULE SECOND NOTICE

OPINION AND ORDER OF THE BOARD (by B. Forcade):

This matter comes before the Board on a November 1, 1984, regulatory proposal by Basic Environmental Engineering, Inc. ("Basic"). Basic proposes a new statewide general regulation that would establish particulate emissions standards for continuous automatic stoking pathological waste incinerators ("Basic incinerator"). Hearings were held on April 24, 1985, in Chicago and on June 3, 1985, in Springfield. On October 8, 1985, the Department of Energy and Natural Resources ("DENR") filed a letter of negative declaration of economic impact, obviating the need for a formal economic impact study. The Economic and Technical Advisory Committee of the DENR concurred with this action on October 17, 1985.

On June 20, 1986, the Board proposed regulatory language for first notice comment which was published at 10 Ill. Reg. 11751, July 11, 1986. The statutory 45-day comment period ended on August 25, 1986. One comment was received from the Administrative Code Unit of the Secretary of State's Office regarding non-substantive format corrections. Those changes have been incorporated in the second notice order.

A detailed discussion of the evidence and Board resolution of the issues is provided in the June 20, 1986, Opinion in this matter and will not be repeated here. However, a brief discussion of the subject and issues involved is provided. The proposed rule would allow animal pathological incinerators using continuous automatic stoking to apply a different basis for determining the emission limit than existing 35 Ill. Adm. Code 212.181. The continuous automatic stoking pathological incinerator cannot comply with the existing particulate regulation which utilizes a concentration based limitation with a correction factor for CO₂. The continuous automatic stoking pathological incinerator can comply when charcoal or some other material with high carbon content is added to the animal charge. The proposed rule, which would allow a mass emissions (pounds of emissions/pounds of charge) method of calculating compliance rather than the existing concentration based method would obviate the need to add charcoal, while ensuring that actual particulate emissions are equivalent to those allowed under 212.181.

The Board will propose this rule for second notice review by the Joint Committee on Administrative Rules. The only two modifications made at this time are the capitalization of the word "section" in Section 212.185(a) and the addition of a section source note. As previously noted, these changes are made in response to Administrative Code Unit comments.

ORDER

The Clerk of the Pollution Control Board is directed to submit the following proposed rule to the Joint Committee on Administrative Rules for second notice review:

Section 212.185 Continuous Automatic Stoking Animal Pathological Waste Incinerators

- a) For purposes of this Section, the following definitions apply: "Animal Pathological Waste" means waste composed of whole or parts of animal carcasses not exceeding ten percent by weight of other materials such as plastic, paper wrapping and animal collars. "Animal" means any organism other than a human being of the kingdom, Animal, distinguished from plants by certain typical characteristics such as the power of locomotion, fixed structure and limited growth, and non-photosynthetic metabolism. "Continuous automatic stoking" means the automatic moving of animal pathological waste during burning, by moving the hearth in a pulse cycle manner, which process is designed to provide a continuous burning rate in which the design charging rate per hour equals the burning rate every hour without limitation, and results in emission rates which are similar over any hour of the burning process.

- b) Section 212.181 shall not apply to continuous automatic stoking pathological waste incinerators if all of the following conditions are met:
 - 1) The incinerator shall burn animal pathological waste exclusively, except as otherwise prescribed by the Agency during specified test operation.
 - 2) The incinerator shall burn no more than 907 kilograms (2000 pounds) of waste per hour.
 - 3) The incinerator shall be multi-stage controlled air combustion incinerator having cyclical pulsed stoking hearth.

- c) No person shall cause or allow the emission of particulate matter into the atmosphere from any incinerator, as defined in this section, to exceed 1 gram of emission per 1 kilogram of animal pathological

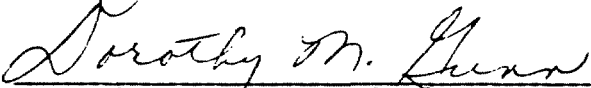
waste charge (0.1 lb/100 lb).

- d) The particulate matter emissions produced when burning animal pathological waste using gaseous auxiliary fuel shall not exceed the pound per hour emission rate equivalent to the maximum concentration rate set forth in Section 212.181(d), when applied to burning a maximum of 2000 lb of mixed charge animal pathological waste plus solid waste for demonstration of compliance. "Mixed charge" shall contain no more than 25% by weight of solid waste other than animal pathological waste.

(Source: Added at _____ Ill. Reg. _____,
effective _____)

IT IS SO ORDERED.

I, Dorothy M. Gunn, Clerk of the Illinois Pollution Control Board, hereby certify that the above Opinion and Order was adopted on the 11th day of September, 1986, by a vote of 6-0.



Dorothy M. Gunn, Clerk
Illinois Pollution Control Board