

*amendments to Chapter 2, Air Pollution Regulations, for*

PROPOSED GRAIN HANDLING ~~REGULATIONS~~

*Grain Drying operations*

Rule 103: PERMITS

(b) OPERATING PERMITS

(2) EXISTING EMISSION SOURCES

(A) SOURCE CLASSIFICATION

DATE OPERATING PERMIT REQUIRED

Grain Handling Operations and Grain Drying Operations . . . . .

By \_\_\_\_\_  
(To be established by Pollution Control Board)

(i) EXEMPTIONS: No permit is required for the following classes of equipment.

(17) Grain handling operations, exclusive of grain drying operations, with an annual grain through-put not exceeding 300,000 bushels.

(18) Grain drying operations with a total aggregate grain drying capacity not exceeding 550 bushels per hour at 5% moisture extraction at manufacturer's rated capacity.

(19) Portable grain handling equipment and one-turn storage space.

Rule 201: DEFINITIONS

Aeration: The practice of forcing air through bulk stored grain to maintain the condition of the grain.

Annual Grain Through-Put: Unless otherwise shown by the <sup>owner or</sup> operator, annual grain through-put for grain handling operations, which have been in operation for three consecutive years prior to the effective date of this Rule, shall be determined by adding grain receipts and shipments for the three previous fiscal years and dividing the sum total by 6.

*203(d)(9)*

The annual grain through-put for grain handling operations in operation for less than three consecutive years prior to the effective date of this Rule shall be determined by a reasonable three year estimate.

EXHIBIT A

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Rule 203: PARTICULATE EMISSION STANDARDS AND LIMITATIONS

(d) Exceptions to Rules 203(a), 203(b), 203(c) and 203(f)

(9) Grain Handling Operations and Grain Drying Operations:

Rules 203(a), 203(b), 203(c) and 203(f) shall not apply to grain handling operations and grain drying operations, and portable grain handling facilities and one-turn storage space.

(A) All grain handling operations and grain drying operations regardless of size must implement and follow the Housekeeping Practices.

(B) Unless otherwise exempted pursuant to Rules 204(d)(9)(D) or Rule 203(d)(9)(E), existing grain handling operations with an annual grain through-put of 300,000 bushels or more shall apply for an operating permit pursuant to Rule 103 of Part I, which shall demonstrate compliance with the following:

(i) Cleaning and Separating Operations:

a) Air contaminants ~~resulting~~ <sup>collected</sup> from cleaning and separating operations shall be conveyed through air pollution control equipment achieving a minimum of 90% removal by weight of particulate matter prior to atmospheric release.

(ii) Major Dump Pit Area

a) Induced Draft:

1) Induced draft shall be applied to major dump pits and their associated equipment (including but not limited to boots, hoppers and legs) to such an extent that a minimum face velocity, at the effective grate surface, sufficient to contain particulate emission generated in unloading operations is maintained. The minimum face

[Essential collection requirements]

velocity at the effective grate surface shall be at least 200 fpm, which shall be determined by using the equation:

$$v_f = \frac{Q}{A}$$

where:  $v_f$  = face velocity

and  $Q$  = induced draft velocity in ~~CFM~~ <sup>Volume</sup>

and  $A$  = effective grate area in Ft<sup>2</sup>

*Q*

*Volume*

*cfm*

*f*

and,

~~emission from the~~

2) The induced draft air stream shall be ~~confined~~ and conveyed through air pollution control equipment which has an ~~overall~~ rated and actual particulate collection efficiency of not less than 90% by weight.

3) Means or devices, (including, but not limited to, quick closing doors, air curtains or wind deflectors), shall be employed to prevent a wind velocity in excess of 50% of the induced draft velocity at the pit. The wind velocity shall be measured, with the induced draft system not operating, at a point mid-way between the dump-pit area walls, at the point where the wind exits the dump-pit area, and at a height above the dump-pit area floor ~~not to exceed~~ two (2) feet; or,

*20 mph  
Maximum  
Wind  
Velocity*

*approximately*

b) Any equivalent methods, technique, system or combination thereof adequate to achieve, at a minimum, a particulate matter emission reduction equal to the reduction which could be achieved by compliance with subpart (ii)(a) herein.

(iii) Internal Transferring Area

a) Internal transferring areas shall be enclosed to the extent necessary to prohibit visible particulate matter emissions directly to the atmosphere.