

567-22.10(455B) Permitting requirements for country grain elevators, country grain terminal elevators, grain terminal elevators and feed mill equipment.

The requirements of this rule apply only to country grain elevators, country grain terminal elevators, grain terminal elevators and feed mill equipment, as these terms are defined in subrule 22.10(1). The requirements of this rule do not apply to equipment located at grain processing plants or grain storage elevators, as "grain processing" and "grain storage elevator" are defined in rule 567-20.2(455B). Compliance with the requirements of this rule does not alleviate any affected person's duty to comply with any applicable state or federal regulations. In particular, the emission standards set forth in 567-Chapter 23, including the regulations for grain elevators contained in 40 CFR Part 60, Subpart DD (as adopted by reference in 567-paragraph 23.1(2)"ooo"), may apply.

22.10(1) Definitions. For purposes of rule 567-22.10(455B), the following terms shall have the meanings indicated in this subrule.

"Country grain elevator" means any plant or installation at which grain is unloaded, handled, cleaned, dried, stored, or loaded and which meets the following criteria:

1. Receives more than 50 percent of its grain, as "grain" is defined in this subrule, from farmers in the immediate vicinity during harvest season;

2. Is not located at any wheat flour mill, wet corn mill, dry corn mill (human consumption), rice mill, or soybean oil extraction plant.

"Country grain terminal elevator" means any plant or installation at which grain is unloaded, handled, cleaned, dried, stored, or loaded and which meets the following criteria:

1. Receives 50 percent or less of its grain, as "grain" is defined in this subrule, from farmers in the immediate vicinity during harvest season;

2. Has a permanent storage capacity of less than or equal to 2.5 million U.S. bushels, as "permanent storage capacity" is defined in this subrule;

3. Is not located at any wheat flour mill, wet corn mill, dry corn mill (human consumption), rice mill, or soybean oil extraction plant.

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"*Feed mill equipment*," for purposes of rule 567-22.10(455B), means grain processing equipment that is used to make animal feed including, but not limited to, grinders, crackers, hammermills, and pellet coolers, and that is located at a country grain elevator, country grain terminal elevator or grain terminal elevator.

"*Grain*," as set forth in Iowa Code section 203.1(9), means any grain for which the United States Department of Agriculture has established standards including, but not limited to, corn, wheat, oats, soybeans, rye, barley, grain sorghum, flaxseeds, sunflower seed, spelt (emmer), and field peas.

"*Grain processing*" shall have the same definition as "grain processing" set forth in rule 567-20.2(455B).

"*Grain storage elevator*" shall have the same definition as "grain storage elevator" set forth in rule 567-20.2(455B).

"*Grain terminal elevator*," for purposes of rule 567-22.10(455B), means any plant or installation at which grain is unloaded, handled, cleaned, dried, stored, or loaded and which meets the following criteria:

1. Receives 50 percent or less of its grain, as "grain" is defined in this subrule, from farmers in the immediate vicinity during harvest season;

2. Has a permanent storage capacity of more than 88,100 m³ (2.5 million U.S. bushels), as "permanent storage capacity" is defined in this subrule;

3. Is not located at an animal food manufacturer, pet food manufacturer, cereal manufacturer, brewery, or livestock feedlot;

4. Is not located at any wheat flour mill, wet corn mill, dry corn mill (human consumption), rice mill, or soybean oil extraction plant.

"*Permanent storage capacity*" means grain storage capacity which is inside a building, bin, or silo.

22.10(2) *Methods for determining potential to emit (PTE).* The owner or operator of a country grain elevator, country grain terminal elevator, grain terminal elevator or feed mill equipment shall use the following methods for calculating the potential to emit (PTE) for particulate matter (PM) and for particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM₁₀).

a. *Country grain elevators.* The owner or operator of a country grain elevator shall calculate the PTE for PM and PM10 as specified in the definition of "potential to emit" in rule 567-20.2(455B), except that "maximum capacity" means the greatest amount of grain received at the country grain elevator during one calendar, 12-month period of the previous five calendar, 12-month periods, multiplied by an adjustment factor of 1.2. The owner or operator may make additional adjustments to the calculations for air pollution control of PM and PM10 if the owner or operator submits the calculations to the department using the PTE calculation tool provided by the department, and only if the owner or operator fully implements the applicable air pollution control measures no later than March 31, 2009, or upon startup of the equipment, whichever event first occurs. Credit for the application of some best management practices, as specified in subrule 22.10(3) or in a permit issued by the department, may also be used to make additional adjustments in the PTE for PM and PM10 if the owner or operator submits the calculations to the department using the PTE calculation tool provided by the department, and only if the owner or operator fully implements the applicable best management practices no later than March 31, 2009, or upon startup of the equipment, whichever event first occurs.

b. *Country grain terminal elevators.* The owner or operator of a country grain terminal elevator shall calculate the PTE for PM and PM10 as specified in the definition of "potential to emit" in rule 567-20.2(455B).

c. *Grain terminal elevators.* For purposes of the permitting and other requirements specified in subrule 22.10(3), the owner or operator of a grain terminal elevator shall calculate the PTE for PM and PM10 as specified in the definition of "potential to emit" in rule 567-20.2(455B). For purposes of determining whether the stationary source is subject to the prevention of significant deterioration (PSD) requirements set forth in 567-Chapter 33, or for determining whether the source is subject to the operating permit requirements set forth in rules 567-22.100(455B) through 567-22.300(455B), the owner or operator of a grain terminal elevator shall include fugitive emissions, as "fugitive emissions" is defined in 567-subrule 33.3(1) and in rule 567-22.100(455B), in the PTE calculation.

d. *Feed mill equipment.* The owner or operator of feed mill equipment, as "feed mill equipment" is defined in subrule 22.10(1), shall calculate the PTE for PM and PM10 for the feed mill equipment as specified in the definition of "potential to emit" in rule 567-20.2(455B). For purposes of determining whether the stationary source is subject to the prevention of significant deterioration (PSD) requirements set forth in 567-Chapter 33, or for determining

whether the stationary source is subject to the operating permit requirements set forth in rules 567-22.100(455B) through 567-22.300(455B), the owner or operator of feed mill equipment shall sum the PTE of the feed mill equipment with the PTE of the country grain elevator, country grain terminal elevator or grain terminal elevator.

22.10(3) *Classification and requirements for permits, emissions controls, record keeping and reporting for Group 1, Group 2, Group 3 and Group 4 grain elevators.* The requirements for construction permits, operating permits, emissions controls, record keeping and reporting for a stationary source that is a country grain elevator, country grain terminal elevator or grain terminal elevator are set forth in this subrule.

a. Group 1 facilities. A country grain elevator, country grain terminal elevator or grain terminal elevator may qualify as a Group 1 facility if the PTE at the stationary source is less than 15 tons of PM10 per year, as PTE is specified in subrule 22.10(2). For purposes of this paragraph, an "existing" Group 1 facility is one that commenced construction or reconstruction before February 6, 2008. A "new" Group 1 facility is one that commenced construction or reconstruction on or after February 6, 2008.

(1) Group 1 registration. The owner or operator of a Group 1 facility shall submit to the department a Group 1 registration, including PTE calculations, on forms provided by the department, certifying that the facility's PTE is less than 15 tons of PM10 per year. The owner or operator of an existing facility shall provide the Group 1 registration to the department on or before March 31, 2008. The owner or operator of a new facility shall provide the Group 1 registration to the department prior to initiating construction or reconstruction of a facility. The registration becomes effective upon the department's receipt of the signed registration form and the PTE calculations.

1. If the owner or operator registers with the department as specified in subparagraph 22.10(3)"a"(1), the owner or operator is exempt from the requirement to obtain a construction permit as specified under subrule 22.1(1).

2. Upon department receipt of a Group 1 registration and PTE calculations, the owner or operator is allowed to add, remove and modify the emissions units or change throughput or operations at the facility without modifying the Group 1 registration, provided that the owner or operator calculates the PTE for PM10 on forms provided by the department prior to making any additions to, removals of or

modifications to equipment, and only if the facility continues to meet the emissions limits and operating limits (including restrictions on material throughput and hours of operation, if applicable, as specified in the PTE for PM10 calculations) specified in the Group 1 registration.

3. If equipment at a Group 1 facility currently has an air construction permit issued by the department, that permit shall remain in full force and effect, and the permit shall not be invalidated by the subsequent submittal of a registration made pursuant to subparagraph 22.10(3)"a"(1).

(2) Best management practices (BMP). The owner or operator of a Group 1 facility shall implement best management practices (BMP) for controlling air pollution at the facility and for limiting fugitive dust at the facility from crossing the property line. The owner or operator shall implement BMP according to the department manual, Best Management Practices (BMP) for Grain Elevators (December 2007, revised July 15, 2014), as adopted by the commission on January 15, 2008, and July 15, 2014, and adopted by reference herein (available from the department, upon request, and on the department's Internet Web site. No later than March 31, 2009, the owner or operator of an existing Group 1 facility shall fully implement applicable BMP, except that BMPs for grain vacuuming operations shall be fully implemented no later than September 10, 2014. Upon startup of equipment at the facility, the owner or operator of a new Group 1 facility shall fully implement applicable BMP.

(3) Record keeping. The owner or operator of a Group 1 facility shall retain a record of the previous five calendar years of total annual grain handled and shall calculate the facility's potential PM10 emissions annually by January 31 for the previous calendar year. These records shall be kept on site for a period of five years and shall be made available to the department upon request.

(4) Emissions increases. The owner or operator of a Group 1 facility shall calculate any emissions increases prior to making any additions to, removals of or modifications to equipment. If the owner or operator determines that PM10 emissions at a Group 1 facility will increase to 15 tons per year or more, the owner or operator shall comply with the requirements set forth for Group 2, Group 3 or Group 4 facilities, as applicable, prior to making any additions to, removals of or modifications to equipment.

(5) Changes to facility classification or permanent grain storage capacity. If the owner or operator of a Group 1 facility plans to change the facility's operations or increase the facility's permanent grain storage capacity to more than 2.5 million U.S. bushels, the owner or operator, prior to making any changes, shall reevaluate the facility's classification and the allowed method for

calculating PTE to determine if any increases to the PTE for PM10 will occur. If the proposed change will alter the facility's classification or will increase the facility's PTE for PM10 such that the facility PTE increases to 15 tons per year or more, the owner or operator shall comply with the requirements set forth for Group 2, Group 3 or Group 4 facilities, as applicable, prior to making the change.

b. Group 2 facilities. A country grain elevator, country grain terminal elevator or grain terminal elevator may qualify as a Group 2 facility if the PTE at the stationary source is greater than or equal to 15 tons of PM10 per year and is less than or equal to 50 tons of PM10 per year, as PTE is specified in subrule 22.10(2). For purposes of this paragraph, an "existing" Group 2 facility is one that commenced construction, modification or reconstruction before February 6, 2008. A "new" Group 2 facility is one that commenced construction or reconstruction on or after February 6, 2008.

(1) Group 2 permit for grain elevators. The owner or operator of a Group 2 facility may, in lieu of obtaining air construction permits for each piece of emissions equipment at the facility, submit to the department a completed Group 2 permit application for grain elevators, including PTE calculations, on forms provided by the department. Alternatively, the owner or operator may obtain an air construction permit as specified under subrule 22.1(1). The owner or operator of an existing facility shall provide the appropriate completed Group 2 permit application for grain elevators or the appropriate construction permit applications to the department on or before March 31, 2008. The owner or operator of a new facility shall provide the appropriate, completed Group 2 permit application for grain elevators or the appropriate construction permit applications to the department prior to initiating construction or reconstruction of a facility.

1. Upon department issuance of a Group 2 permit to a facility, the owner or operator is allowed to add, remove and modify the emissions units at the facility, or change throughput or operations, without modifying the Group 2 permit, provided that the owner or operator calculates the PTE for PM10 prior to making any additions to, removals of or modifications to equipment, and only if the facility continues to meet the emissions limits and operating limits (including restrictions on material throughput and hours of operation, if applicable, as specified in the PTE for PM10 calculations) specified in the Group 2 permit.

2. If a Group 2 facility currently has an air construction permit issued by the department, that permit shall remain in full force and effect, and the permit shall not be invalidated by the subsequent submittal of a Group 2 permit application for grain elevators made pursuant to this rule. However, the owner or operator of a Group 2 facility may request that the department incorporate any equipment with a previously issued construction permit into the Group 2 permit for grain elevators. The department will grant such requests on a case-by-case basis. If the department grants the request to incorporate previously permitted equipment into the Group 2 permit for grain elevators, the owner or operator of the Group 2 facility is responsible for requesting that the department rescind any previously issued construction permits.

(2) Best management practices (BMP). The owner or operator shall implement BMP, as specified in the Group 2 permit, for controlling air pollution at the source and for limiting fugitive dust at the source from crossing the property line. If the department revises the BMP requirements for Group 2 facilities after a facility is issued a Group 2 permit, the owner or operator of the Group 2 facility may request that the department modify the facility's Group 2 permit to incorporate the revised BMP requirements. The department will issue permit modifications to incorporate BMP revisions on a case-by-case basis. No later than March 31, 2009, the owner or operator of an existing Group 2 facility shall fully implement BMP, as specified in the Group 2 permit. Upon startup of equipment at the facility, the owner or operator of a new Group 2 facility shall fully implement BMP, as specified in the Group 2 permit.

(3) Record keeping. The owner or operator of a Group 2 facility shall retain all records as specified in the Group 2 permit.

(4) Emissions inventory. The owner or operator of a Group 2 facility shall submit an emissions inventory for the facility for all regulated air pollutants as specified under 567-subrule 21.1(3).

(5) Emissions increases. The owner or operator of a Group 2 facility shall calculate any emissions increases prior to making any additions to, removals of or modifications to equipment. If the owner or operator determines that potential PM10 emissions at a Group 2 facility will increase to more than 50 tons per year, the owner or operator shall comply with the requirements set forth for Group 3 or Group 4 facilities, as applicable, prior to making any additions to, removals of or modifications to equipment.

(6) Changes to facility classification or permanent grain storage capacity. If the owner or operator of a Group 2 facility plans to change the facility's operations or increase the facility's permanent grain storage capacity to more than 2.5 million U.S. bushels, the owner or operator, prior to making any changes, shall

reevaluate the facility's classification and the allowed method for calculating PTE to determine if any increases to the PTE for PM10 will occur. If the proposed change will increase the facility's PTE for PM10 such that the facility PTE increases to more than 50 tons per year, the owner or operator shall comply with the requirements set forth for Group 3 or Group 4 facilities, as applicable, prior to making the change.

c. Group 3 facilities. A country grain elevator, country grain terminal elevator or grain terminal elevator may qualify as a Group 3 facility if the PTE for PM10 at the stationary source is greater than 50 tons per year, but is less than 100 tons of PM10 per year, as PTE is specified in subrule 22.10(2). For purposes of this paragraph, an "existing" Group 3 facility is one that commenced construction, modification or reconstruction before February 6, 2008. A "new" Group 3 facility is one that commenced construction or reconstruction on or after February 6, 2008.

(1) Air construction permit. The owner or operator of a Group 3 facility shall obtain the required construction permits as specified under subrule 22.1(1). The owner or operator of an existing facility shall provide the construction permit applications, as specified in subrule 22.1(3), to the department on or before March 31, 2008. The owner or operator of a new facility shall obtain the required permits, as specified in subrule 22.1(1), from the department prior to initiating construction or reconstruction of a facility.

(2) Permit conditions. Construction permit conditions for a Group 3 facility shall include, but are not limited to, the following:

1. The owner or operator shall implement BMP, as specified in the permit, for controlling air pollution at the source and for limiting fugitive dust at the source from crossing the property line. If the department revises the BMP requirements for Group 3 facilities after a facility is issued a permit, the owner or operator of the Group 3 facility may request that the department modify the facility's permit to incorporate the revised BMP requirements. The department will issue permit modifications to incorporate BMP revisions on a case-by-case basis.

2. The owner or operator shall retain all records as specified in the permit.

(3) Emissions inventory. The owner or operator shall submit an emissions inventory for the facility for all regulated air pollutants as specified under 567-subrule 21.1(3).

(4) Changes to facility classification or permanent grain storage capacity. If the owner or operator of a Group 3 facility plans to change its operations or increase the facility's permanent grain storage capacity to more than 2.5 million U.S. bushels, the owner or operator, prior to making any changes, shall reevaluate the facility's classification and the allowed method for calculating PTE to determine if any increases to the PTE for PM10 will occur. If the proposed change will alter the facility's classification or will increase the facility's PTE for PM10 such that the facility PTE increases to greater than or equal to 100 tons per year, the owner or operator shall comply with the requirements set forth for Group 4 facilities, as applicable, prior to making the change.

(5) PSD applicability. If the PTE for PM or PM10 at the Group 3 facility is greater than or equal to 250 tons per year, the owner or operator shall comply with requirements specified in 567-Chapter 33, as applicable. The owner or operator of a Group 3 facility that is a grain terminal elevator shall include fugitive emissions, as "fugitive emissions" is defined in 567-subrule 33.3(1), in the PTE calculation for determining PSD applicability.

(6) Record keeping. The owner or operator shall keep the records of annual grain handled at the facility and annual PTE for PM and PM10 emissions on site for a period of five years, and the records shall be made available to the department upon request.

d. Group 4 facilities. A facility qualifies as a Group 4 facility if the facility is a stationary source with a PTE equal to or greater than 100 tons of PM10 per year, as PTE is specified in subrule 22.10(2).

For purposes of this paragraph, an "existing" Group 4 facility is one that commenced construction, modification or reconstruction before February 6, 2008. A "new" Group 4 facility is one that commenced construction or reconstruction on or after February 6, 2008.

(1) Air construction permit. The owner or operator of a Group 4 facility shall obtain the required construction permits as specified under subrule 22.1(1). The owner or operator of an existing facility shall provide the construction permit applications, as specified by subrule 22.1(3), to the department on or before March 31, 2008. The owner or operator of a new facility shall obtain the required permits, as specified by subrule 22.1(1), from the department prior to initiating construction or reconstruction of a facility.

(2) Permit conditions. Construction permit conditions for a Group 4 facility shall include, but are not limited to, the following:

1. The owner or operator shall implement BMP, as specified in the permit, for controlling air pollution at the facility and for limiting fugitive dust at the facility from crossing the property line. If the department revises the BMP requirements for Group 4 facilities after a facility is issued a permit, the owner or operator of the Group 4 facility may request that the department modify the facility's permit to incorporate the revised BMP requirements. The department will issue permit modifications to incorporate BMP revisions on a case-by-case basis.

2. The owner or operator shall retain all records as specified in the permit.

(3) PSD applicability. If the PTE for PM or PM10 at the facility is equal to or greater than 250 tons per year, the owner or operator shall comply with requirements specified in 567-Chapter 33, as applicable.

The owner or operator of a Group 4 facility that is a grain terminal elevator shall include fugitive emissions, as "fugitive emissions" is defined in 567-subrule 33.3(1), in the PTE calculation for determining PSD applicability.

(4) Record keeping. The owner or operator shall keep the records of annual grain handled at the facility and annual PTE for PM and PM10 emissions on site for a period of five years, and the records shall be made available to the department upon request.

(5) Operating permits. The owner or operator of a Group 4 facility shall apply for an operating permit for the facility if the facility's annual PTE for PM10 is equal to or greater than 100 tons per year as specified in rules 567-22.100(455B) through 567-22.300(455B). The owner or operator of a Group 4 facility that is a grain terminal elevator shall include fugitive emissions in the calculations to determine if the PTE for PM10 is greater than or equal to 100 tons per year. The owner or operator also shall submit annual emissions inventories and fees, as specified in rule 567-22.106(455B).

22.10(4) Feed mill equipment. This subrule sets forth the requirements for construction permits, operating permits, and emissions inventories for an owner or operator of feed mill equipment as "feed mill equipment" is defined in subrule 22.10(1). For purposes of this subrule, the owner or operator of "existing" feed mill equipment shall have commenced construction or reconstruction of the feed mill equipment before February 6, 2008. The owner or operator of "new" feed mill equipment shall have commenced construction or reconstruction of the feed mill equipment on or after February 6, 2008.

a. *Air construction permit.* The owner or operator of feed mill equipment shall obtain an air construction permit as specified under subrule 22.1(1) for each piece of feed mill equipment that emits a regulated air pollutant. The owner or operator of "existing" feed mill equipment shall provide the appropriate permit applications to the department on or before March 31, 2008. The owner or operator of "new" feed mill equipment shall provide the appropriate permit applications to the department prior to initiating construction or reconstruction of feed mill equipment.

b. *Emissions inventory.* The owner or operator shall submit an emissions inventory for the feed mill equipment for all regulated air pollutants as specified under 567-subrule 21.1(3).

c. *Operating permits.* The owner or operator shall sum the PTE of the feed mill equipment with the PTE of the equipment at the country grain elevator, country grain terminal elevator or grain terminal elevator, as PTE is specified in subrule 22.10(2), to determine if operating permit requirements specified in rules 567-22.100(455B) through 567-22.300(455B) apply to the stationary source. If the operating permit requirements apply, then the owner or operator shall apply for an operating permit as specified in rules 567-22.100(455B) through 567-22.300(455B). The owner or operator also shall begin submitting annual emissions inventories and fees, as specified under rule 567-22.106(455B).

d. *PSD applicability.* For purposes of determining whether the stationary source is subject to the prevention of significant deterioration (PSD) requirements set forth in 567-Chapter 33, the owner or operator shall sum the PTE of the feed mill equipment with the PTE of the equipment at the country grain elevator, country grain terminal elevator or grain terminal elevator. If the PTE for PM or PM10 for the stationary source is equal to or greater than 250 tons per year, the owner or operator shall comply with requirements for PSD specified in 567-Chapter 33, as applicable.

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EPA Rulemakings

CFR: 40 C.F.R. 52.820(c)
FRM: 73 FR 49950 (8/25/2008)
PRM: 73 FR 49981 (8/25/2008)
State Submission: 4/14/2008
State Final: IAB 2/13/2008; effective 3/19/2008
APDB File: IA-129; EPA-R07-OAR-2008-0403
Description: This new rule applies to country grain elevators, country grain terminal elevators, grain terminal elevators and feed mill equipment, as these terms are defined in subrule 22.10(1).

CFR: 40 C.F.R. 52.820(c)
FRM: 80 FR 33192 (6/11/2015) effective 8/10/2015
PRM: 80 FR 33222 (6/11/2015)
State Submission: 5/4/2015
State Final: IAB 3/18/2015; state effective 9/10/2014
APDB File: IA-169- 170; EPA-R07-OAR-2015-0358
Description: This revision amends 22.10(3)a(2) to include grain vacuuming operations, and revises the revisions dates to add July 15, 2014. BMPs for grain vacuuming operations are to be implemented NLT 9/10/14.

Difference Between the State and EPA-Approved Regulation

None.