

Facility Name: _____

Initials: _____

Permit Number (Dept use only): _____



Iowa Department of Natural Resources Air Quality Construction Permit For a Group 2 Grain Elevator

Permit Holder

Firm: _____

Contact:

Responsible Party:

_____	(name)	_____
_____	(title)	_____
_____	(telephone)	_____
_____	(email address)	_____
_____	(street)	_____
_____	(city, state, zip)	_____

Permitted Equipment

Facility Name: _____

Equipment Location: _____ (street)
 _____ (city, state, zip)
 _____ (county)

Issuance of this permit shall not relieve the owner or operator of the responsibility to comply fully with applicable provisions of the State Implementation Plan (SIP), and any other requirements of local, state, and federal law.

Permit No.	Project No.	Description	Date	Testing
				NO

Plant Number: _____

Under the direction of the Director of the
Department of Natural Resources

For Department Use Only

Type of Facility Being Permitted

This template is only applicable to country grain elevators, country grain terminal elevators, and grain terminal elevators as defined in 567 IAC 22.10(1) that meet the Group 2 facility requirements specified in 567 IAC 22.10(3) . The owner or operator is allowed to add, remove and modify emission units, or change throughput or operations, at this source without modifying this permit as long as the source continues to meet the emission limits and operating limits in condition 10 and condition 14 of this permit and maintain a current list of all emissions equipment operated at the facility as specified in condition 15. If any proposed change at this facility would cause an exceedance of any emission limit or operating limit in this permit, the permit holder must first obtain the proper air quality construction permits.

The following facilities and emissions units shall not be covered under this permit:

- A. Any facility subject to 567— rule 33.3(455B) (Special construction permit requirements for major stationary sources in areas designated attainment or unclassified (PSD)) or rule 31.1(455B) (Permit requirements relating to nonattainment areas) is not eligible for coverage under this permit.
- B. Any facility located in Polk or Linn County is not eligible for coverage under this permit.
- C. Emission units not directly associated with grain handling, including but not limited to diesel generators, fuel oil storage tanks, and feed mill equipment. The owner or operator of these emission units must use an applicable exemption in 567 IAC 22.1(2) or obtain a construction permit as specified in 22.1(1).

For equipment permitted under 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 this Group 2 permit. The owner or operator may request that the Department incorporate any equipment with a previously issued permit into this Group 2 permit. If approved by the Department, the owner or operator of the Group 2 facility is responsible for requesting that the Department rescind any previously issued permits.

Permittee Certification

I certify that, based on information and belief formed after reasonable inquiry, the enclosed documents including the attachments are true, accurate, and complete and that legal entitlement to install and operate the equipment covered by the permit application and on the property identified in the permit application has been obtained.

I certify that this permit, as drafted, is for (and only for) a country grain elevator, country grain terminal elevator, or grain terminal elevator not otherwise “excluded” as noted above. I certify that there are no physical or chemical characteristics or pollutants in the air contaminants emitted for this facility which are atypical of this type of facility.

Attach:

- A copy of potential PM₁₀ emissions calculations from the Grain PTE program.**
- A site map.**
- A list of equipment. (Or complete the table on page 3 of application form.)**

For country grain terminal elevators and grain terminal elevators, the operating limits, including grain throughput limits, specified in the attached PTE calculations and PTE calculations and equipment list as updated for subsequent equipment modifications, are enforceable limits.

I certify that the above listed attachments are included and that the terms and conditions of this permit will be met at all times.

Responsible Party – Signature _____

Title _____ Date _____

PERMIT CONDITIONS

1. Departmental Review

This permit is valid only after signature by the Iowa Department of Natural Resources staff.

This permit is issued based on information submitted by the applicant. Any misinformation, false statements or misrepresentations by the applicant or by the applicant's representative(s) shall cause this permit to be void. In addition, the applicant may be subject to criminal penalties according to Iowa Code Section 455B.146A.

This permit is issued under the authority of 567 Iowa Administrative Code (IAC) 22.3. The proposed equipment has been evaluated for conformance with Iowa Code Chapter 455B; 567 IAC Chapters 20 – 35; and 40 Code of Federal Regulations (CFR) Parts 51, 52, 60, 61, and 63 and has the potential to comply.

No review has been undertaken on the engineering aspects of the equipment or control equipment other than the potential of that equipment for reducing air contaminant emissions. The Department assumes no liability, directly or indirectly, for any loss due to damage to persons or property caused by, resulting from, or arising out of the design, installation, maintenance or operation of the proposed equipment.

2. Owner and Operator Responsibility

This permit is for the construction and operation of specific emission unit(s), control equipment, and emission point as described in this permit. The permit holder, owner, and operator of the facility shall assure that the installation of the equipment listed in this permit conforms to the design in the application (i.e. type, maximum rated capacity, etc.).

Any owner or operator of the specified emission unit(s), control equipment, or emission point, including any person who becomes an owner or operator subsequent to the date on which this permit is issued, is responsible for assuring that the installation, operation, and maintenance of the equipment listed in this permit is in compliance with the provisions of this permit and all other applicable requirements.

The owner or operator of any emission unit or control equipment shall maintain and operate the equipment and control equipment at all times in a manner consistent with good practice for minimizing emissions, as required by paragraph 567 IAC 24.2(1) "*Maintenance and Repair*".

3. Transferability

This permit is for the construction and operation of emission unit(s), control equipment and emission points as specified in this permit and located at this facility. As limited by 567 IAC 22.3(3)"f", this permit is not transferable from one location to another.

4. Construction

A. General Requirements

It is the owner's responsibility to ensure that construction conforms to the final plans and specifications as submitted, and that adequate operation and maintenance is provided to ensure that no condition of air pollution is created.

An owner or operator of an existing facility may make modifications to the facility, including the replacement of individual pieces of equipment at the facility, without making revisions to this permit. This is permissible so long as the limits specified in Permit Condition 10 and 14 are met, and the facility remains certified, and is not otherwise excluded, as specified in the Permittee Certification Section on page 2. All modifications and replacements should be noted on the attached Equipment List as required in Permit Condition 15.

In permit amendments, all provisions of the original permit remain in full force and effect unless they are specifically changed by the permit amendment. If a proposed project is not timely completed, the owner or operator shall seek a permit amendment in order to revert back to the most recent previous version of the permit. The previous, unchanged permit provisions are included in the amendment for your convenience only and are unappealable.

This permit or amendment shall become void if any one of the following conditions occurs:

- (1) the construction or implementation of the proposed project, as it affects the emission point permitted herein, is not initiated within eighteen (18) months after the permit issuance date; or

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- (2) the construction or implementation of the proposed project, as it affects the emission point permitted herein, is not completed within thirty-six (36) months after the permit issuance date; or
- (3) the construction or implementation of the proposed project, as it affects the emission point permitted herein, is not completed within a time period specified elsewhere in this permit.

B. Amended Permits

The owner or operator may continue to act under the provisions of the previous permit for the affected emission unit(s) and emission point, together with any previous amendment to the permit, until one of the following conditions occurs:

- (1) The proposed project authorized by this amendment is completed as it affects the emission unit(s) and emission point permitted herein; or
- (2) This current amendment becomes void.

5. Credible Evidence

As stated in 567 IAC 21.5 and also in 40 CFR Part §60.11(g), where applicable, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any provisions specified in this permit or any provisions of 567 IAC Chapters 20 through 35.

6. Excess Emissions

Per 567 IAC 24.1(1), excess emissions during a period of startup, shutdown, or cleaning of control equipment are not a violation of the emission standard if it is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions except when another regulation applicable to the unit or process provides otherwise. Cleaning of control equipment, which does not require the shutdown of process equipment, shall be limited to one (1) six-minute period per one (1) hour period.

An incident of excess emissions other than the above is a violation and may be subject to criminal penalties according to Iowa Code 455B.146A. If excess emissions are occurring, either the control equipment causing the excess shall be repaired in an expeditious manner, or the process generating the emissions shall be shutdown within a reasonable period of time, as specified in 567 IAC 24.1.

An incident of excess emissions shall be orally reported by telephone, electronic mail or in person to the appropriate field office within eight (8) hours of, or at the start of, the first working day following the onset of the incident (See Permit Condition 8.C.1). A written report of an incident of excess emissions shall be submitted as a follow-up to all required initial reports within seven (7) days of the onset of the upset condition (See Permit Condition 8.C.2).

7. Permit Violations

Knowingly committing a violation of this permit may carry a criminal penalty of up to \$10,000 per day fine and two (2) years in jail according to Iowa Code Section 455B.146A.

8. Notification, Reporting, and Recordkeeping

- A. The owner or operator shall keep the operating condition monitoring records as required in Permit Conditions 14 and 15 and shall provide them to the DNR upon request.
- B. The owner or operator shall furnish the Department the following written notifications:
 - (1) Per 567 IAC 22.3(3)"b":
 - (a) The date construction, installation, or alteration is initiated postmarked within thirty (30) days following initiation of construction, installation, or alteration;
 - (b) The actual date of startup, postmarked within fifteen (15) days following the start of operation;
 - (2) Per 567 IAC 22.3(8), a new owner shall notify the Department of the transfer of equipment ownership within thirty (30) days of the occurrence. The notification shall be mailed to:

Air Quality Bureau
Iowa Department of Natural Resources
502 E 9th St
Des Moines IA 50319

and include the following information:

- The date of ownership change,
- The name, address, and telephone number of the responsible official, the contact person, and the owner

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- of the equipment both before and after the ownership change; and
- The construction permit number(s) of the equipment changing ownership.

(3) Unless specified per a federal regulation, notification of each compliance test required by Permit Condition 12 shall be done not less than thirty (30) days before the required test or performance evaluation of a continuous emission monitor [567 IAC 25.1(7)]. The notification shall include:

- the time,
- the place,
- the name of the person who will conduct the tests,
- and other information as required by the Department;

If the owner or operator does not provide timely notice to the Department, the Department shall not consider the test results or performance evaluation results to be a valid demonstration of compliance with the applicable rules or permit conditions. Upon written request, the Department may allow a notification period of less than thirty (30) days.

C. The owner or operator shall furnish the Department with the following reports:

- (1) Per 567 IAC 24.1(2), an incident of excess emissions as defined in 567 IAC 20.2 shall be reported within eight (8) hours or at the start of the first working day following the onset of the incident. The report may be made by electronic mail, in person or by telephone.
- (2) Per 567 IAC 24.1(3), a written report of an incident of excess emissions as defined in 567 IAC 20.2 shall be submitted as a follow-up to all required initial reports to the Department within seven (7) days of the onset of the upset condition.
- (3) Operation of this emission unit(s) or control equipment outside of those operating parameters specified in Permit Condition 14 in accordance to the schedule set forth in 567 IAC 24.1.
- (4) Per 567 IAC 25.1(6), the owner or operator of any facility required to install a continuous monitoring system or systems shall provide quarterly reports to the Director, no later than thirty (30) calendar days following the end of the calendar quarter, on forms provided by the Director.
- (5) Per 567 IAC 25.1(7), a written compliance demonstration report for each compliance testing event, whether successful or not, postmarked not later than six (6) weeks after the completion of the test period unless other regulations provide for other notification requirements. In that case, the more stringent reporting requirement shall be met.

D. All data, records, reports, documentation, construction plans, and calculations required under this permit shall be available at the plant during normal business hours for inspection and copying by federal, state, or local air pollution regulatory agencies and their authorized representatives, for a minimum of two (2) years from the date of recording unless otherwise required by another applicable law (i.e. NSPS, NESHAP, etc.).

E. The owner or operator shall send correspondence regarding this permit to the following address:

Construction Permit Supervisor
Air Quality Bureau
Iowa Department of Natural Resources
502 E 9th St
Des Moines IA 50319
Telephone: (515) 725-9549
Fax: (515) 725-9501

F. The owner or operator shall send correspondence concerning stack testing to:

Stack Testing Coordinator
Air Quality Bureau
Iowa Department of Natural Resources
502 E 9th St
Des Moines IA 50319
Telephone: (515) 725-9545
Fax: (515) 725-9501

G. The owner or operator shall send reports and notifications to:

Compliance Unit Supervisor
Air Quality Bureau
Iowa Department of Natural Resources

502 E 9th St
 Des Moines IA 50319
 Telephone: (515) 725-9550
 Fax: (515) 725-9501

9. Appeal Rights

All conditions within an original permit may be appealed, subject to the appeal rights set forth in 561 IAC Chapter 7. Amended conditions within a permit amendment may be appealed, subject to the appeal rights set forth in 561 IAC Chapter 7. In permit amendments, all provisions of the original permit remain in full force and effect unless they are specifically changed by the permit amendment. The previous, unchanged permit provisions are included in the amendment for your convenience only and are unappealable.

Per 561 IAC 7.4(1), the owner or operator shall file any written notice of appeal within thirty (30) days of receipt of the issued permit. The written notice of appeal shall be filed with the Director of the Department with a copy to the Legal Services Bureau Chief at the following addresses:

Director Iowa Department of Natural Resources 502 E 9 th St Des Moines IA 50319	Bureau Chief - Legal Services Iowa Department of Natural Resources 502 E 9 th St Des Moines IA 50319
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10. Emission Limits

Pollutant	lb/hr ¹	Tons/yr ²	Additional Limits	Reference (567 IAC)
Particulate Matter (PM)	NA	249.4 ³	0.1 gr/dscf	23.4(7)
Particulate Matter (PM) (bin vents)	NA	NA	1.0 gr/dscf ^{1, 5}	23.4(7)
Particulate Matter (PM) (bin vents)	NA	NA	0.1 gr/dscf ^{1, 6}	23.4(7)
PM ₁₀	NA	50 ⁴	NA	NAAQS
Opacity (grain handling) ⁷	NA	NA	5% ⁸	NA
Opacity	NA	NA	40% ⁸	23.3(2)"d"
Sulfur Dioxide (SO ₂)	NA	NA	NA	NA
Nitrogen Oxides (NO _x)	NA	NA	NA	NA
Volatile Organic Compounds	NA	NA	NA	NA
Carbon Monoxide (CO)	NA	NA	NA	NA
Lead (Pb)	NA	NA	NA	NA
(Single HAP)	NA	NA	NA	NA
(Total HAP)	NA	NA	NA	NA

¹The emission limit is expressed as the average of three (3) runs.

²The emission limit is a twelve (12) month rolling total.

³Facility-wide limit to stay minor for PSD.

⁴Facility-wide limit for all emissions from the grain elevator only. Does not include emissions from separately permitted activities such as feed mill equipment.

⁵Emission limit applies to any bin at a country grain elevator. Standard also applies to any country grain terminal elevator or grain terminal elevator bin vent constructed, modified or reconstructed before March 31, 2008.

⁶Emission limit applies to bin vents constructed or reconstructed on or after March 31, 2008 at country grain terminal elevators and grain terminal elevators.

⁷Grain handling includes but is not limited to equipment such as bucket elevators or legs, scale hoppers, turn heads, scalpers, cleaners, trippers, and headhouse and other such structures.

⁸The emission limit is a six (6) minute average.

All emission units must comply with applicable state, federal and local emission limit requirements. Visible emissions or fugitive dust shall not cross the lot line of the property on which the elevator is located (**Authority for Requirement: 567 IAC 23.3(2)"c".**)

11. Emission Point Characteristics

There are no specific stack characteristic requirements for grain elevators subject to this permit.

12. Compliance Demonstration(s) and Performance Testing

This facility is not subject to initial performance testing requirements, with the exception of those requirements that may be required for facilities subject to 40 CFR Part 60, Subpart DD (Standards of Performance for Grain Elevators), as adopted in 567 IAC 23.1(2)"ooo.". However, the Department retains authority pursuant to 567 IAC 25.1(7) to require an emission test on any equipment if there is reason to believe that the equipment does not comply with applicable requirements. The Department will provide additional guidance to the owner or operator, should an emission test(s) be required.

If an initial performance test is required, the owner or the owner's authorized agent shall verify compliance with the emission limitations contained in Permit Condition 10 within sixty (60) days after achieving maximum production rate and no later than one hundred eighty (180) days after the initial startup date of the proposed equipment.

If testing is required, the owner or the owner's authorized agent shall use the test method and run time listed in the table below unless another testing methodology is approved by the Department prior to testing.

Pollutant	Test Run Time	Test Method
PM – Federal	1 hour	40 CFR 60, Appendix A, Method 5
PM - State	1 hour	40 CFR 60, Appendix A, Method 5 40 CFR 51 Appendix M Method 202
PM ₁₀	1 hour	40 CFR 51, Appendix M, 201A with 202
PM _{2.5}	1 hour	40 CFR 51, Appendix M, 201A with 202
Opacity	1 hour	40 CFR 60, Appendix A, Method 9
SO ₂	1 hour	40 CFR 60, Appendix A, Method 6C
NO _x	1 hour	40 CFR 60, Appendix A, Method 7E
VOC	1 hour	40 CFR 60, Appendix A, Method 25A
CO	1 hour	40 CFR 60, Appendix A, Method 10
Pb	1 hour	40 CFR 60, Appendix A, Method 12
Other		

Each emissions compliance test must be approved by the Department. Unless otherwise specified by the Department, each test shall consist of three (3) separate runs. The arithmetic mean of three (3) acceptable test runs shall apply for compliance, unless otherwise indicated by the Department.

Per 567 IAC 25.1(7)"a", at the Department's request, a pretest meeting shall be held not later than fifteen (15) days before the owner or operator conducts the compliance demonstration. A testing protocol shall be submitted to the Department no later than fifteen (15) days before the owner or operator conducts the compliance demonstration. Representatives from the Department shall attend this meeting, along with the owner and the testing firm, if any. It shall be the responsibility of the owner to coordinate and schedule the pretest meeting. A representative of the Department shall be allowed to witness the test(s). The Department shall reserve the right to impose additional, different, or more detailed testing requirements.

The owner shall be responsible for the installation and maintenance of test ports. The unit(s) being sampled shall be operated in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which this unit(s) will be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the Department that this unit(s) has been physically altered so that capacity cannot be exceeded, or the Department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the Department to determine whether this unit(s) is in compliance.

13. New Source Performance Standards (NSPS) and National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability

Emission units at this source may be subject to the following NSPS requirements: 567 IAC 23.1(2)"ooo" (40 CFR Part 60, Subpart DD: Standards of Performance for Grain Elevators). Any units subject to the rule must comply with the applicable requirements listed in this rule.

The emission units at this source are not subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP), as there are no subparts for this source category at this time.

14. Operating Limits

- A. Operating limits for this grain elevator shall include the following requirements and best management practices:
1. Maintain and operate equipment and air pollution control equipment at all times in a manner consistent with good practice for minimizing emissions. Air pollution control equipment includes but is not limited to, quick closing doors, enclosures, air curtains, wind deflectors, grain oiling equipment, loadout socks and drop-down spouts or sleeves, baghouses and vent filters, and cyclones.
 2. Equipment and air pollution control equipment malfunctions shall be remedied in an expeditious manner so as to minimize the amount and duration of excess emissions.
 3. Air pollution control equipment shall be operated when the air emission source is in operation and shall be checked daily for proper operation. This requirement does not apply on days that the air emission source does not operate.
 4. Routine maintenance of equipment and air pollution control equipment shall be scheduled during periods of process shutdown to the maximum extent possible.
 5. Clean internal and external areas including floors, roofs and decks as necessary to minimize dust to the atmosphere when the facility is receiving, transferring, or loading out grain.
 6. Clean the yard, ditches and curbs as necessary to minimize accumulation of grain, chaff, and grain dust.
 7. Grain handling equipment (includes but is not limited to bucket elevators or legs, scale hoppers, turn heads, scalpers, cleaners, trippers, and headhouse and other such structures) shall be cleaned, enclosed, or controlled as necessary to minimize visible dust emissions to the atmosphere to 5% or less opacity when the equipment is being operated.
 8. Operation of aeration fans shall be minimized during loading of grain into storage bins to the extent possible.
 9. Dump pits with enclosures shall be maintained and operated so as to minimize the emissions of dust to the atmosphere resulting from the dumping and handling of grain.
 10. Dump pits with induced draft fans installed must use fans with a capacity of at least 50 cfm/sq. ft. of airflow at the effective grate surface, where the area of the effective grate surface is the area of the dump pit grate through which air passes, or would pass, when aspirated.
 11. If feasible, loadouts shall use socks and drop-down spouts or sleeves, or equivalent, which extend at least 6 inches below the sides of the receiving container to minimize grain free-fall distance, except for topping off.
 12. To the extent possible, the flow of the grain through the spout shall be regulated so as to minimize dust emissions from the receiving container when the container is empty to only partially full.
 13. Column dryers shall have screen perforations on replacement screens or new dryer screens no greater than 0.094 inch.
 14. Grain inlets and grain outlets to dryers shall be enclosed.
 15. Rack dryers shall have a maximum screen house filter size of 50 mesh on replacement screen house filters or new dryer screen house filters.
 16. The volume of grain passing through the dryer shall not exceed the manufacturer's recommended capacity.
 17. Dryer screens should be inspected before each dryer start-up.
 18. Grain shall be oiled after receipt at the grain unloading station (dump pit) and prior to transfer to bin storage or grain shall be oiled at the grain loadout or PM10 controls may be operated that result in equivalent or better facility-wide PM10 emissions reductions as would occur with the use of grain oiling at the grain unloading station.
- B. Grain vacuuming (grain vac) operators must employ best management practices as necessary to reasonably prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the grain vac is being operated. These BMP are examples of reasonable practices to minimize the generation of fugitive dust emissions from grain vac operations:
1. For grain loadouts use socks and drop-down spouts or sleeves, or equivalent, which extend at least 6 inches below the sides of the receiving container to minimize grain free-fall distance, except for topping off.
 2. Operate the vac at times when the wind direction and speed would minimize offsite impact.

3. Vary the speed of the vac operations to minimize dust emissions.
 4. Utilize directional discharge to minimize offsite impact.
 5. Evaluate the use of additional control measures, such as add on controls, if needed to comply with 567 IAC 23.3(2)"c".
- C. For country grain terminal elevators and grain terminal elevators, the operating limits, including grain throughput limits, specified in the attached PTE calculations and PTE calculations and equipment list as updated for subsequent equipment modifications, are enforceable limits.
- D. The owner or operator of an existing Group 2 facility shall fully implement BMP, as specified above, no later than March 31, 2009. The owner or operator of a new Group 2 facility shall fully implement BMP, as specified above, upon start-up of equipment at the facility.

15. Operating Condition Monitoring

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner. These records shall show the following:

- A. Record the amount of grain handled, in bushels. Calculate and record monthly and calendar year totals.
- B. The owner or operator shall calculate the facility-wide potential PM₁₀ emissions per 567 IAC 22.10(2) annually by January 31 for the previous calendar year to determine compliance with the emission limits in Section 10.
- C. Record all corrective actions, including maintenance and repair actions and the date of those actions, completed to resolve emissions equipment and pollution control equipment malfunctions, including grain oiling equipment, if installed, that resulted in excess emissions.
- D. Maintain receipts or records showing the date and quantity of on-site deliveries of oil used for grain oiling, if installed. Using the receipts or records, calculate the quantity of oil used for grain oiling annually by January 31 for the previous calendar year.
- E. Record all instances when grain oiling equipment, if installed, is inoperable. Records shall include the date and length of time that the grain oiling equipment was inoperable and the amount of grain that was handled while the grain oiling equipment was inoperable.
- F. Implement a written plan to minimize operation of aeration fans during loading into the storage bins.
- G. Document housekeeping procedures and frequency to comply with 14A, items 5 and 6
- H. Maintain manufacturer's specifications or engineering specifications on grain dryers and receiving pits to show compliance with the requirements in 14A, items 10, 13, and 15.
- I. Maintain a current list of all emissions equipment operated at the facility (Potential to Emit calculation spreadsheet or equivalent). The list shall include the capacity or throughput of the emissions equipment, associated control equipment, and construction date of the emissions equipment and control equipment, and all equipment modifications and replacements.
- J. The owner or operator shall maintain a site map such as a grain license site map or AutoCAD drawing, of all emissions equipment operated at the facility, showing the locations of all emissions equipment.
- K. All grain elevators subject to the grain vacuuming best management practices shall record the BMPs used during times of grain vac operation. In addition, wind speed and direction and date and time of grain vac operation shall be noted.

16. Continuous Emission Monitoring

Continuous emission monitoring is not required by this permit at this time.

17. Description of Terms and Acronyms

acfm	Actual cubic feet per minute
Applicant	The owner, company official or authorized agent
CFR	Code of Federal Regulations
Department	Iowa Department of Natural Resources
DNR	Iowa Department of Natural Resources
gr/dscf	Grains per dry standard cubic foot
HAP	Hazardous Air Pollutant(s)
IAC	Iowa Administrative Code
lb/hr	Pounds per hour
MMBtu	Million British thermal units
NA	Not Applicable

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NAAQS	National Ambient Air Quality Standards
NO _x	Nitrogen Oxides
Owner	The owner or authorized representative
Permit	This document including permit conditions and all submitted application materials
PM ₁₀	Particulate Matter equal to or less than 10 microns in aerodynamic diameter
scfm	Standard cubic feet per minute
SIP	State Implementation Plan
SO ₂	Sulfur Dioxide
tons/yr	Tons per year
VOC	Volatile Organic Compound

END OF PERMIT CONDITIONS