

Facility Name \_\_\_\_\_

Initial \_\_\_\_\_

Permit Number (Dept use only) \_\_\_\_\_



### Iowa Department of Natural Resources Air Quality Construction Permit For an Aggregate Processing Plant

#### Permit Holder

Firm: \_\_\_\_\_

Contact:

Responsible Party:

(name)

(title)

(telephone)

(email address)

(street)

(city, state, zip)

#### Permitted Equipment

Facility Name: \_\_\_\_\_

Is the Equipment Portable?  Yes  No

Equipment Location or  
Staging Area (if portable):

\_\_\_\_\_ (street)

\_\_\_\_\_ (city, state, zip)

\_\_\_\_\_ (county)

Permit No.	Project No.	Description	Date	Testing

Plant Number: \_\_\_\_\_

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

For Department Use Only

Facility Name \_\_\_\_\_

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**Equipment List**

Production Equipment Type	Production Equipment Make	Production Equipment Model	Production Equipment Serial Number or Company ID	Associated Control Equipment Serial Number or Company ID	Construction Date
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
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_____	_____	_____	_____	_____	_____

## 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 and on the property identified in the permit application has been obtained.

I certify that this permit, as drafted, is for (and only for) an “aggregate processing plant” not otherwise “excluded” as noted below. 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.

I certify that the terms and conditions of this permit will be met at all times.

Responsible Party – Signature \_\_\_\_\_

Title \_\_\_\_\_ Date \_\_\_\_\_

## Facility Covered by this Permit

This permit is only applicable to a “aggregate processing plant”<sup>1</sup> not otherwise excluded<sup>2</sup>.

<sup>1</sup>“Aggregate processing plant” means a combination of fixed or portable equipment for the processing of aggregate<sup>3</sup> including each crusher, grinding mill, screening operation, bucket elevator, belt conveyor, bagging operation, storage bin, and truck or railcar loading station, power sources such as generators, power units and engines, and petroleum storage tanks. Crushers and grinding mills at a hot mix asphalt facility that reduce the size of nonmetallic minerals embedded in recycled asphalt pavement and at subsequent affected facilities up to, but not including, the first storage silo or bin are also included.

<sup>2</sup>Exclusions. The following plants shall not be covered under this permit

- A. Any aggregate processing facility already subject to an existing air quality construction permit or operating permit is not eligible for coverage under this permit unless those permits are revoked concurrently with the start of coverage under this permit for the facility.
- B. Any plant subject to 567— rule 22.4(455B) (special requirements for major stationary sources located in areas designated attainment or unclassified (PSD)), or rule 22.5(455B) (special requirements for nonattainment areas) is not eligible for coverage under this permit.
- C. Any aggregate processing plant located in Polk or Linn County or portable plant relocating to Polk or Linn County is not eligible for coverage under this permit.
- D. Any aggregate processing plant that is located on the same property where emission sources are covered by an air quality construction permit, other than another aggregate processing plant, liquid storage tanks, a concrete batch plant or hot mix asphalt facility, is not eligible for coverage under this permit.

<sup>3</sup>“Aggregate” means crushed or broken stone, sand or gravel, recycled concrete, or any mixture the majority of which consists of crushed or broken stone, sand or gravel, recycled concrete, or other nonmetallic mineral as defined in 40 CFR 60.671.

## PERMIT CONDITIONS

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### 1. Departmental Review

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.

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### 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 and in the application for 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.). No person shall construct, install, reconstruct or alter this emission unit(s), control equipment, or emission point without the required amended permit.

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".

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### 3. Transferability

As limited by 567 IAC 22.3(3)"f", this permit is not transferable from one location to another or from one piece of equipment to another, unless the equipment is portable. When portable equipment for which a permit has been issued is to be transferred from one location to another, the Department shall be notified in writing at least seven (7) days prior to transferring to the new location unless the equipment will be located in an area which is classified as nonattainment for the National Ambient Air Quality Standards (NAAQS) or is a maintenance area for the NAAQS in which case notification shall be given fourteen (14) days prior to the relocation of equipment<sup>1</sup> (See Permit Condition 8.A.2). The owner or operator will be notified at least ten (10) days prior to the scheduled relocation if the relocation will cause a violation of the (NAAQS). In such case, a supplemental permit shall be required prior to the initiation of construction of additional control equipment or equipment modifications needed to meet the standards.

<sup>1</sup>A list of nonattainment areas and maintenance areas for the NAAQS can be obtained from the Department.

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### 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.

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:

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- (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
- (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. Changes to Plans and Specifications**

The owner or operator shall amend this permit or amendment prior to startup of the equipment if:

- (1) Any changes are made to the final plans and specifications submitted for the proposed project; or
- (2) This permit becomes void.
- (3) The owner/operator may add or remove units from the equipment list without amending this permit if the facility continues to meet all other requirements in this permit.

Changes to the final plans and specification shall include changes to plans and specifications for permitted equipment and control equipment and the specified operation thereof.

**C. 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.

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**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.

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**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.B.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.B.2).

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**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.

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**8. Notification, Reporting, and Recordkeeping**

A. 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;

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- (2) Per 567 IAC 22.3(3)"f", when portable equipment for which a permit has been issued is to be transferred from one location to another, the Department shall be notified:
- at least fourteen (14) days before equipment relocation if the equipment will be located in a nonattainment area for the National Ambient Air Quality Standards (NAAQS) or a maintenance area for the NAAQS;
  - at least seven (7) days before equipment relocation.

- (3) 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 9<sup>th</sup> 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 of the equipment both before and after the ownership change; and
  - The construction permit number(s) of the equipment changing ownership.
- (4) 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.

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

- 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.
- 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.
- Operation of this emission unit(s) or control equipment outside of those operating parameters specified in Permit Condition 14 shall be identified in a quarterly report and submitted to the Department no later than thirty (30) calendar days following the end of the calendar quarter.
- 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.
- 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;

C. 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.)

D. The owner shall send correspondence regarding this permit to the following address:

Construction Permit Supervisor  
Air Quality Bureau

Iowa Department of Natural Resources  
 502 E 9<sup>th</sup> St  
 Des Moines IA 50319  
 Telephone: (515) 725-9549  
 Fax: (515) 725-9501

E. The owner shall send correspondence concerning stack testing to:

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

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

Compliance Unit Supervisor  
 Air Quality Bureau  
 Iowa Department of Natural Resources  
 502 E 9<sup>th</sup> St  
 Des Moines IA 50319  
 Telephone: (515) 725-9550  
 Fax: (515) 725-9501

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## 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 <sup>th</sup> St Des Moines IA 50319	Bureau Chief - Legal Services Iowa Department of Natural Resources 502 E 9 <sup>th</sup> St Des Moines IA 50319
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## 10. Emission Limits

All emission units must comply with applicable state, federal and local emission limit requirements including:

### Particulate and Opacity Limits for facilities subject to 40 CFR Subpart OOO, Standards of Performance for Nonmetallic Mineral Processing Plants

#### Units constructed before April 22, 2008

- 0.022 gr/dscf of particulate matter for emissions from any transfer point on belt conveyors or any other affected facility stack emissions.
- Fugitive emissions from any building enclosing an NSPS OOO affected facility shall not exceed 7 percent opacity.
- Any crusher, at which a capture system is not used, shall not exceed an emission limit of 15 percent opacity.
- All other units subject to New Source Performance Standards shall not exceed 10 percent opacity.
- Any baghouse that controls emissions from only an individual, enclosed storage bin is exempt from the applicable stack PM concentration limit (and associated performance testing) above but must meet the applicable stack opacity limit and compliance requirements. This exemption from the stack PM concentration limit does not apply for multiple storage bins with combined stack emissions.

**Units constructed after April 22, 2008**

1. 0.014 gr/dscf of particulate matter for emissions from any transfer point on belt conveyors or any other affected facility stack emissions.
2. Fugitive emissions from any building enclosing an NSPS OOO affected facility shall not exceed 7 percent opacity.
3. Any crusher, at which a capture system is not used, shall not exceed an emission limit of 12 percent opacity.
4. All other units subject to New Source Performance Standards shall not exceed 7 percent opacity.
5. Any baghouse that controls emissions from only an individual, enclosed storage bin is exempt from the applicable stack PM concentration limit (and associated performance testing) above but must meet the applicable stack opacity limit and compliance requirements. This exemption from the stack PM concentration limit does not apply for multiple storage bins with combined stack emissions.

**Particulate and Opacity Limits for all other facilities**

1. 40 percent opacity and 0.1 grain PM per dry standard cubic foot of exhaust gas. This requirement applies to all emission units not covered by 40 CFR Subpart OOO or to power generation or indirect heating units.
2. 0.6 lb PM per MMBTU for indirect heating or power generation.

**SO2 Limits**

1. 2.5 lbs of SO2 per MMBTU. This requirement applies to liquid fuel.
2. 500 parts per million by volume SO2. This requirement applies to all other sulfur containing processes.

Visible emissions or fugitive dust shall not cross the lot line of the property on which the plant is located.

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**11. Emission Point Characteristics**

**Emission control and Stack Requirements**

- (1) All stacks shall be vertical and unobstructed.
- (2) The stack height of the generator(s) shall be a minimum of 20 feet above grade for Tier 4 and Tier 4 interim engines and 25 feet above grade for Tier 2 or Tier 3 engines.

It shall be the owner's responsibility to ensure that construction conforms with the emission point characteristics stated above. If it is determined that any of the emission point characteristics are different than stated above, the owner must notify the Department and obtain a permit amendment, if required.

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**12. Compliance Demonstration(s)**

Pollutant	Compliance Demonstration	Compliance Methodology	Frequency
PM – Federal	Yes	Performance Testing <sup>(1)</sup>	According to NSPS OOO
PM – State	No	NA	NA
PM <sub>10</sub>	No	NA	NA
PM <sub>2.5</sub>	No	NA	NA
Opacity	Yes	Performance Testing <sup>(1)</sup>	According to NSPS OOO
SO <sub>2</sub>	No	NA	NA

<sup>(1)</sup>An aggregate processing facility commencing construction or modification after August 31, 1983, shall comply with all stack testing requirements of New Source Performance Standards (NSPS) Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants, as adopted by reference in 567 IAC 23.1(2)“bbb.” All affected sources subject to the standards in 40 CFR §60.672 shall be tested according to the methods and procedures in 40 CFR §60.675.

**If an initial compliance demonstration specified above is testing,** 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 subsequent testing is specified above,** the owner or the owner's authorized agent shall verify compliance with the emission limitations contained in Permit Condition 10 according to the frequency and timeframe noted above.

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 <sub>10</sub>	1 hour	40 CFR 51, Appendix M, 201A with 202
PM <sub>2.5</sub>	1 hour	40 CFR 51, Appendix M, 201A with 202
Opacity	1 hour	40 CFR 60, Appendix A, Method 9
SO <sub>2</sub>	1 hour	40 CFR 60, Appendix A, Method 6C

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**

These facilities are subject to 40 CFR 60 Subpart OOO, Standards of Performance for Nonmetallic Mineral Processing Plants as amended on April 28, 2009, unless exempted or qualifying as existing facilities under this Subpart and to the applicable provisions of NSPS Subpart A - General Provisions (40 CFR §60.1 through 40 CFR §60.19), which was adopted by reference in IAC 567—paragraph 23.1(2)"f."

Storage tanks of petroleum liquids which were constructed, reconstructed or modified after June 11, 1973 and prior to May 19, 1978 may be subject to Subpart K of 40 CFR Chapter 60 as amended on April 4, 1980. Storage tanks of petroleum liquids which were constructed, reconstructed or modified after May 18, 1978 and prior to July 23, 1984 may be subject to Subpart Ka of 40 CFR Chapter 60 as amended on April 8, 1987. Storage tanks of petroleum liquids which were constructed, reconstructed or modified after July 23, 1984 may be subject to Subpart Kb of 40 CFR Chapter 60 as amended on October 8, 1997.

Stationary diesel internal combustion engines may be subject to the New Source Performance Standards (NSPS) Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (40 CFR §60.4200 through 40 CFR §60.4219) (IAC 23.1(2)"yyy") and to NSPS Subpart A - General Provisions (40 CFR §60.1 through 40 CFR §60.19). If the engine is portable and does not meet the definition of a *Stationary internal combustion engine* from §60.4219, it is not subject to NSPS Subpart IIII.

Stationary diesel internal combustion engines may also be subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart ZZZZ - Stationary Reciprocating Internal Combustion Engines (40 CFR §63.6580 through 40 CFR §63.6675) (IAC 23.1(4)"cz") and to NESHAP Subpart A - General Provisions (40 CFR §63.1 through 40 CFR §63.15). Engines that are in compliance with NSPS Subpart IIII comply with Subpart ZZZZ, in accordance with §63.6590 (c), and no further requirements apply to this engine under Subpart ZZZZ. If the engine is portable and does not meet the definition of a *Stationary internal combustion engine* from §63.6675, it is not subject to NESHAP Subpart ZZZZ.

Aggregate processing plants are not of the source type subject to any subpart of the National Emission Standards for Hazardous Air Pollutants (NESHAP).

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#### 14. Operating Limits

1. If this plant is at least 200 feet from the property line and any other permitted facility then the daily production limit is 4725 tons of aggregate and the limit on the number of storage bins and/or conveyors operated at any one time is 40.
2. If this plant is at least 300 feet from the property line and any other permitted facility then the daily production limit is 6300 tons of aggregate and the limit on the number of storage bins and/or conveyors operated at any one time is 30.
3. If this plant is at least 450 feet from the property line and any other permitted facility then the daily production limit is 7400 tons of aggregate and the limit on the number of storage bins and/or conveyors operated at any one time is 40.
4. This plant shall operate no more than 14 hours per day and only between the hours of 5:00 am to 9:00 pm except in Woodbury County. In Woodbury County the operating hours are 5:00 am to 8:00 pm.
5. A maximum of three crushers may be operated at the plant at any one time.
6. A maximum of three screening stations may be operated at the plant at any one time.
7. A diesel internal combustion engine used to power the plant, if used, shall be certified to U.S. Environmental Protection Agency's Tier 2, Tier 3, interim Tier 4 or final Tier 4 standards for compression ignition engines in accordance with 40 CFR Part 89 and 40 CFR Part 1039.
8. The rated capacity of all engines operated at the plant at any one time shall not exceed 2200 horsepower.
9. The only fuels allowed shall be #1 or #2 diesel, biodiesel, propane or natural gas.
10. The maximum sulfur content of any fuel used shall be 15 ppm.
11. All crushers shall use a water spray or equivalent measures to control particulate emissions. Water spray nozzles and other control equipment shall be inspected monthly to ensure proper operation.
12. Fugitive emissions of particulate matter shall meet opacity standards listed in Condition 10 and shall be controlled by natural or added moisture or other acceptable practices as necessary.

#### Prohibited Locations

13. This plant shall not locate in Polk or Linn County unless permitted by the air pollution control program of that county.
14. This plant shall not locate on the same property where emission sources are covered by an air quality construction permit, other than another aggregate processing, hot mix asphalt facility, liquid storage tanks or concrete batch plant. The plant shall be separated from the other aggregate processing, hot mix asphalt facility, liquid storage tanks or concrete batch plant by the distance required in Section 14.

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#### 15. Operating Condition Monitoring

An aggregate processing plant must keep the operating records specified in Condition 8 and shall provide them to the Department upon request.

1. The owner/operator shall maintain an updated equipment list of all units at this facility. Units may be added or removed without obtaining a permit amendment as long as the facility continues to meet all the requirements of this permit.
2. Maintain a record of inspections and maintenance on all pollution control devices.
3. Maintain a record of equivalent pollution control measures used in lieu of water spray.
4. Maintain a record of the sulfur content of any fuel used at this facility.
5. Maintain a record of the hours of operation for this plant including initial startup time and final shutdown time.
6. Maintain a record of the amount of production from this plant, in tons per day.
7. Maintain a record of the distance from the property line for each location.
8. All monitoring and recordkeeping requirements of 40 CFR 60.674 and 60.676 as applicable.

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#### 16. Best Management Practices (BMP)

All aggregate processing plants covered under this permit are required to employ best management practices to reasonably prevent the discharge of fugitive dust from all process equipment, storage piles, and haul roads beyond the lot line of the property on which it is located. These BMP are examples of reasonable practices to minimize the generation of fugitive dust emissions.

**BMP on process equipment include but are not limited to:**

- Limit drop heights of materials being transferred to or from any stock pile, bin, or conveyors
- Watering materials

**BMP on haul roads include but are not limited to:**

- Limiting truck speed on facility property
- Watering and/or treating unpaved roadways with chemical dust-suppressants
- Watering and/or sweeping paved roadways
- Immediately cleaning-up or dampening all material spills on the roadways

**BMP on storage piles include but are not limited to:**

- Covering storage piles
- Watering storage piles
- Partially enclosing above ground storage piles within three-sided enclosures
- Stock piles shall be kept as compact as possible

**17. Description of Terms and Acronyms**

*The descriptions below are meant only as a brief explanation of terms contained within the permit and may not be the exact definition of the term or acronym as contained within the regulations.*

acfm	Actual cubic feet per minute
Applicant	The owner, company official or authorized agent
Btu	British thermal unit
°C	Degrees Celsius
Condensable PM	Material that condenses and/or reacts upon cooling and dilution in the ambient air to form particulate matter immediately after discharge from the stack
CO <sub>2</sub> e	Carbon dioxide equivalent which is the aggregate emissions of greenhouse gas (GHG) emissions based on global warming potentials
Department	Iowa Department of Natural Resources
dia.	Diameter
°F	Degrees Fahrenheit
ft	Foot
GHG	Greenhouse Gas which is defined as being the group of carbon dioxide (CO <sub>2</sub> ), methane (CH <sub>4</sub> ), nitrous oxide (N <sub>2</sub> O), hydrofluorocarbons (HFC), perfluorocarbons (PFC) and sulfur hexafluoride (SF <sub>6</sub> )
g	grams
g/dscm	Grams per dry standard cubic meter
gr	Grains
gr/dscf	Grains per dry standard cubic foot
gr/scf	Grains per standard cubic foot
HAP	Hazardous Air Pollutant(s)
hp	horsepower
hr	Hour
lb	Pound
lb/hr	Pounds per hour
m	Meter
mg	Milligram
MM	Million
MW	Megawatt
NA	Not Applicable
PM <sub>2.5</sub>	Particulate Matter with an aerodynamic diameter equal to or less than 2.5 microns
PM <sub>10</sub>	Particulate Matter with an aerodynamic diameter equal to or less than 10 microns
PM – Federal	Particulate Matter that does not include the condensable PM
PM – State	Particulate Matter that includes condensable PM
ppm	parts per million
ppm <sub>v</sub>	parts per million by volume
ppm <sub>w</sub>	parts per million by weight
scfm	Standard cubic feet per minute

Facility Name \_\_\_\_\_

Initial \_\_\_\_\_

Permit Number (Dept use only) \_\_\_\_\_

SHAP	Single hazardous air pollutant
THAP	Total hazardous air pollutants
tons/yr	Tons per year
yr	Year

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**END OF PERMIT**