



July 18, 2018

Ms. Melanie Smith  
State of Delaware – DNREC  
Division of Air Quality  
100 West Water Street, Suite 6A  
Dover DE 19904

Re: Mountaire Farms of Delaware, Inc.  
APC-2014/0090-OPERATION Amendment


Dear Ms. Smith:

Enclosed please find the application forms for a modification to the current construction permit for pellet cooler #1 (EU 54). The forms attached as requested are; AQM-1, AQM-2, AQM-3.13, and AQM-5, in addition with a calculation sheet for emission release of PM-10.

The forms attached are for a modification to our current permit where we are seeking to replace the current CP pellet cooler with a Hayes & Stolz pellet cooler. There will; however, be no change to emissions of PM-10 or the production of 50 tons per hour of said equipment.

Should you have any questions, please do not hesitate to call me at 302-934-3070.

Sincerely,

  
Austin Pajda  
Environmental Manager

cc: Tanya Rogers-Vickers (Mountaire) *TMRV*  
JR Lapearl (Mountaire)



**Mountaire Farms Inc.**

*"We measure quality by how well we service our internal and external customers"*



**DNREC – Division of Air Quality**  
**Application to Construct, Operate, or Modify**  
**Stationary Sources**

**Administrative Information**

*One original and one copy of All Application Forms Should Be Mailed To:*  
**Division of Air Quality**  
**100 West Water Street, Suite 6A**  
**Dover, DE 19904**

*All Checks Should Be Made Payable To:*  
**State of Delaware**

| <u><b>Company and Site Information</b></u>   |   |
|--|---|
| 1.   | Company Name: <b>Mountaire Farms of Delaware, Inc.</b>  |
| 2.   | Company Mailing Address: <b>PO Box 1320</b><br>City: <b>Millsboro</b> State: <b>Delaware</b> Zip Code: <b>19966</b>   |
| 3.   | Site Name: <b>Millsboro Complex</b>   |
| 4.   | Site Mailing Address:<br><i>(if different from above)</i><br>City: State: Zip Code:   |
| 5.   | Physical Location of Site: <b>29106 John J. Williams Hwy</b><br><i>(if different from above)</i><br>City: <b>Millsboro</b> State: <b>Delaware</b> Zip Code: <b>19966</b>  |
| 6.   | Site Billing Address:<br><i>(if different from above)</i><br>City: State: Zip Code:   |
| 7.   | Air Quality Management Facility ID Number: <b>1000500004</b>  |
| 8.   | Site NAICS Code): <b>31165, 311119, 11234</b><br><i>(list all that apply)</i>   |
| 9.   | Site SIC Code: <b>2015, 2048, 0254</b><br><i>(list all that apply)</i>  |
| 10.  | Site Location Coordinates: Latitude: <b>38 ° 36' 2.3508"</b><br>Longitude: <b>75 ° 15' 24.2288"</b>   |
| 11.  | Is the Facility New or Existing? <input type="checkbox"/> NEW <input checked="" type="checkbox"/> EXISTING  |
| <i>If the Facility is an Existing Facility, Complete the Rest of Question 11. If Not, Proceed to Question 12.</i>                          |   |
| 11.1.  | Does the Facility Have Active Air Permits? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO  |
| 12.  | Is this Application For New Equipment or a Modification to Existing Equipment?<br><input type="checkbox"/> New Equipment<br><input checked="" type="checkbox"/> Modification of Existing Equipment<br><input type="checkbox"/> Other (Specify): |
| <i>If the application is for the modification of existing equipment, complete the rest of Question 12. If not, proceed to Question 13.</i> |   |



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Form AQM-1  
Page 2 of 4

**Company and Site Information**

12.1. Does the Equipment Have an Active Air Permit?  YES  NO

*If the equipment has an active air permit, complete the rest of Question 12. If not, proceed to Question 13.*

12.2. Permit Number of Existing Equipment: **APC-2014/0090-OPERATION (Amendment 1)**

13. Status of Equipment Being Applied For:  Natural Minor Source  
 Synthetic Minor Source  
 Major Source  
 Federally Enforceable Restrictions

14. Facility Status:  Natural Minor Facility  Synthetic Minor Facility  Major Facility

*If the facility is a Major Source, complete the rest of Question 14. If not, proceed to Question 15.*

14.1. Responsible Official Name: **Jimmy Paulakuhn**

14.2. Responsible Official Title: **VP of Live Operations**

**Contact Information**

15. Name of Owner or Facility Manager: **Jimmy Paulakuhn**

16. Title of Owner or Facility Manager: **VP of Live Operations**

17. Permit Contact Name: **Austin Pajda**

18. Permit Contact Title: **Environmental Manager**

19. Permit Contact Telephone Number: **302-934-3070**

20. Permit Contact Fax Number:

21. Permit Contact E-Mail Address: **apajda@mountaire.com**

22. Billing Contact Name:

23. Billing Contact Title:

24. Billing Contact Telephone Number:

25. Billing Contact Fax Number:

26. Billing Contact E-Mail Address:

**Proposed Construction and Operating Schedule**

27. When Will the Proposed Construction/Installation/Modification Occur: upon amendment approval

28. Proposed Operating Schedule: **24 hours/day 7 days/week 52 weeks/year**

28.1. Is There Any Additional Information Regarding the Operating Schedule?  YES  NO

*If YES, complete the rest of Question 28. If NO, proceed to Question 29.*



**DNREC – Division of Air Quality**  
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|   |
|---|
| <b>Proposed Construction and Operating Schedule</b>   |
| 28.2. Describe the Additional Information: <b>The pellet cooler is being replaced. All associated air equipment is remaining.</b> |

|  |
|--|
| <b>Coastal Zone Information</b>  |
| 29. Is the Facility Located in the Coastal Zone? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO   |
| <i>If the facility is located in the Coastal Zone complete the rest of Question 29. If not, proceed to Question 30.</i>  |
| 29.1. Is a Coastal Zone Permit Required for Construction or Operation of the Source Being Applied for? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| Attach a copy of the Coastal Zone Determination if it has not been previously submitted  |
| <i>If a Coastal Zone Permit is required complete the rest of Question 29. If not, proceed to Question 30.</i>  |
| 29.2. Has a Coastal Zone Permit Been Issued? <input type="checkbox"/> YES <input type="checkbox"/> NO  |
| Attach a copy of the Coastal Zone Permit if it has not been previously submitted   |

|  |
|--|
| <b>Local Zoning Information</b>                                      |
| 30. Parcel Zoning: <b>H-1; Heavy Industrial</b>                      |
| Attach Proof of Local Zoning if it has not been previously submitted |

|   |
|---|
| <b>Application Information</b>  |
| 31. Is the Appropriate Application Fee Attached? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO  |
| 32. Is the Advertising Fee Attached? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO  |
| <i>For help determining your application and advertising fees see:</i><br><a href="http://www.dnrec.state.de.us/DNREC2000/Library/Fees/DE%20Permit%20Fees.htm">http://www.dnrec.state.de.us/DNREC2000/Library/Fees/DE%20Permit%20Fees.htm</a> |
| Attach the appropriate fees. Note that your Application will not be considered complete if the appropriate fees are not included.   |
| 33. Is a Cover Letter Describing the Process Attached? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO  |
| Attach a brief cover letter describing your Application.  |
| <i>If the Facility is a New Facility complete Question 34. If not, proceed to Question 35.</i>  |
| 34. Is a Copy of the Applicant Background Information Questionnaire on Record at the Department? <input type="checkbox"/> YES <input type="checkbox"/> NO   |
| <i>If NO, complete the rest of Question 34. If YES, process to Question 35.</i>   |
| 34.1 Is a Copy of the Applicant Background Information Questionnaire Attached? <input type="checkbox"/> YES <input type="checkbox"/> NO   |
| <i>For a copy of the Applicant Background Information Questionnaire see</i><br><a href="http://www.dnrec.delaware.gov/services/Documents/Chapter79Form.pdf">http://www.dnrec.delaware.gov/services/Documents/Chapter79Form.pdf</a>            |
| Attach a copy of the Applicant Background Information Questionnaire if applicable.  |
| 35. Check Which Application Forms are Attached:   |



**DNREC – Division of Air Quality**  
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**Application Information**

- |   |                                  |  |                                   |                                  |   |                                |
|---|----------------------------------|--|-----------------------------------|----------------------------------|---|--------------------------------|
| <input checked="" type="checkbox"/> AQM-1 | <input type="checkbox"/> AQM-3.4 | <input type="checkbox"/> AQM-3.9             | <input type="checkbox"/> AQM-3.14 | <input type="checkbox"/> AQM-4.4 | <input type="checkbox"/> AQM-4.9          | <input type="checkbox"/> AQM-6 |
| <input checked="" type="checkbox"/> AQM-2 | <input type="checkbox"/> AQM-3.5 | <input type="checkbox"/> AQM-3.10            | <input type="checkbox"/> AQM-3.15 | <input type="checkbox"/> AQM-4.5 | <input type="checkbox"/> AQM-4.10         |                                |
| <input type="checkbox"/> AQM-3.1          | <input type="checkbox"/> AQM-3.6 | <input type="checkbox"/> AQM-3.11            | <input type="checkbox"/> AQM-4.1  | <input type="checkbox"/> AQM-4.6 | <input type="checkbox"/> AQM-4.11         |                                |
| <input type="checkbox"/> AQM-3.2          | <input type="checkbox"/> AQM-3.7 | <input type="checkbox"/> AQM-3.12            | <input type="checkbox"/> AQM-4.2  | <input type="checkbox"/> AQM-4.7 | <input type="checkbox"/> AQM-4.12         |                                |
| <input type="checkbox"/> AQM-3.3          | <input type="checkbox"/> AQM-3.8 | <input checked="" type="checkbox"/> AQM-3.13 | <input type="checkbox"/> AQM-4.3  | <input type="checkbox"/> AQM-4.8 | <input checked="" type="checkbox"/> AQM-5 |                                |

36. Check Which Documents are Attached:

- |   |  |
|---|--|
| <input type="checkbox"/> Coastal Zone Determination                     | <input type="checkbox"/> Claim of Confidentiality            |
| <input type="checkbox"/> Coastal Zone Permit                            | <input type="checkbox"/> Manufacturer Specification(s)       |
| <input type="checkbox"/> Proof of Local Zoning                          | <input type="checkbox"/> Material Safety Data Sheets (MSDSs) |
| <input checked="" type="checkbox"/> Application Fee                     | <input checked="" type="checkbox"/> Supporting Calculations  |
| <input checked="" type="checkbox"/> Advertising Fee                     | <input checked="" type="checkbox"/> Descriptive Cover Letter |
| <input type="checkbox"/> Applicant Background Information Questionnaire | <input type="checkbox"/> Other (Specify):                    |

**Confidentiality Information**

37. Do You Consider Any of the Information Submitted With this Application Confidential?  YES  NO

For help on how to submit a confidentiality claim see

<http://regulations.delaware.gov/register/december2011/final/15%20DE%20Reg%20864%2012-01-11.htm>

If a Claim of Confidentiality is made it MUST meet the requirements of Section 6 of DNREC's Freedom of Information ("FOIA") Regulation at the time the Application is submitted.

**Signature Block**

I, the undersigned, hereby certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all of its attachments as to the truth, accuracy, and completeness of this information. I certify based on information and belief formed after reasonable inquiry, the statements and information in this document are true, accurate, and complete. By signing this form, I certify that I have not changed, altered, or deleted any portions of this application. I acknowledge that I cannot commence construction, alteration, modification or initiate operation until I receive written approval (i.e. permit, registration, or exemption letter) from the Department. I acknowledge that I may be required to perform testing of the equipment to receive construction or operation approval, and that if I do not receive approval to construct or operate that I may appeal the decision.

**Jimmy Paulakuhn**

Owner or Operator

Signature of Owner or Operator

7/18/18  
Date

**One Original and One Copy of All Application Forms Should Be Mailed To:**  
**Division of Air Quality**  
**100 W. Water Street, Suite 6A**  
**Dover, Delaware 19904**

**All Checks Should Be Made Payable To:**  
**State of Delaware**



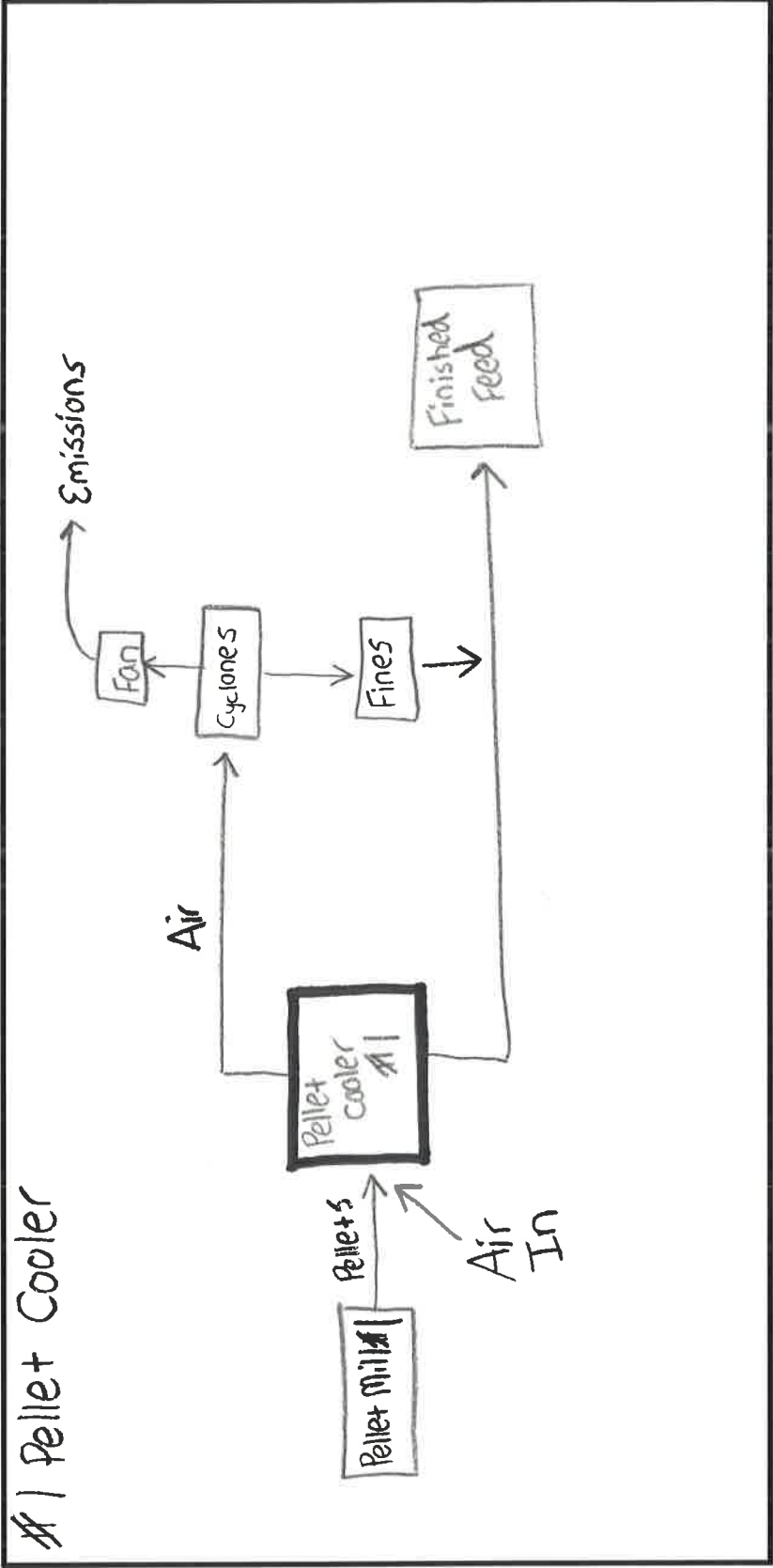


**DNREC – Air Quality Management Section**  
**Application to Construct, Operate, or Modify**  
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Form AQM-2  
Page 1 of 1

**Process Flow Diagram**

Sketch the Process Flow Diagram for the equipment or process being applied for. Include each emission unit and control device (even existing emission units that will not be modified by this application). You may identify each emission unit with a simple shape. Label each emission unit and control device with a unique identifier. Show the relationship between each emission unit and/or control device by drawing arrows between them to indicate the flow of air pollutants. List which application forms are included for each emission unit or control device below the shape representing each emission unit or control device. See <http://www.delaware.gov/req2/default.htm> for example Process Flow Diagrams for common processes. If you already have a Process Flow Diagram for the equipment or process being applied for, you may attach it to the application instead of using this form.





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Form AQM-3.13  
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**Grain Terminal, Elevator, and Drying Application**  
*If you are using this form electronically, press F1 at any time for help*

| <b>General Information</b> |   |
|----------------------------|---|
| 1.                         | Facility Name: <b>Millsboro Feed Mill</b>   |
| 2.                         | Types of Grain Handling Activities: <i>(check all that apply)</i> <ul style="list-style-type: none"> <li><input type="checkbox"/> Receiving: Truck Unloading</li> <li><input type="checkbox"/> Receiving: Railcar Unloading</li> <li><input type="checkbox"/> Receiving: Barge Unloading</li> <li><input type="checkbox"/> Transferring and Conveying: Receiving Elevator Leg</li> <li><input type="checkbox"/> Transferring and Conveying: Elevator Head (Headhouse)</li> <li><input type="checkbox"/> Transferring and Conveying: Storage Bin Vents</li> <li><input type="checkbox"/> Transferring and Conveying: Turning</li> <li><input type="checkbox"/> Grain Processing: Scales (Microunits)</li> <li><input type="checkbox"/> Grain Processing: Hammermills</li> <li><input type="checkbox"/> Grain Processing: Mixers</li> <li><input checked="" type="checkbox"/> Grain Processing: Pellet Coolers</li> <li><input type="checkbox"/> Screening and Cleaning</li> <li><input type="checkbox"/> Grain Drying</li> <li><input type="checkbox"/> Shipping (Load Out): Truck Loading</li> <li><input type="checkbox"/> Shipping (Load Out): Railcar Loading</li> <li><input type="checkbox"/> Shipping (Load Out): Barge Loading</li> <li><input type="checkbox"/> Other (Specify):</li> </ul> |
| 3.                         | Year Facility Installed: <b>1983</b>  |
| 4.                         | Permanent Grain Storage Capacity: <b>6.2 million</b> bushels  |

| <b>Grain Receiving Information</b>  |   |   |                                  |  |  |
|---|---|---|----------------------------------|--|--|
| <i>If Grain Receiving activities do not occur, proceed to Question 9.</i>   |   |   |                                  |  |  |
| 5. Types of Vehicles Unloaded and Grain Received <i>(check all that apply)</i>  |   |   |                                  |  |  |
| <b>If there are more than five combinations of Vehicles Unloaded and Grain Received, attach additional copies of this page as needed.</b>   |   |   |                                  |  |  |
| <u>Type of Vehicle Unloaded</u>   | <u>Type of Grain Unloaded</u>   | <u>Method of Unloading</u>  | <u>Grain Density (lb/bushel)</u> | <u>Maximum Quantity Unloaded (tons/hour)</u> | <u>Maximum Quantity Unloaded (tons/year)</u> |
| 5.1. <ul style="list-style-type: none"> <li><input type="checkbox"/> Straight Truck</li> <li><input type="checkbox"/> Hopper Truck</li> <li><input type="checkbox"/> Rail: Boxcar</li> <li><input type="checkbox"/> Rail: Hopper Car</li> <li><input type="checkbox"/> Continuous Barge</li> <li><input type="checkbox"/> Marine Leg</li> <li><input type="checkbox"/> Ship</li> <li><input type="checkbox"/> Other (Specify):</li> </ul> | <ul style="list-style-type: none"> <li><input type="checkbox"/> Corn</li> <li><input type="checkbox"/> Wheat</li> <li><input type="checkbox"/> Rye</li> <li><input type="checkbox"/> Oats</li> <li><input type="checkbox"/> Barley</li> <li><input type="checkbox"/> Flax Seed</li> <li><input type="checkbox"/> Sorghum</li> <li><input type="checkbox"/> Soybeans</li> <li><input type="checkbox"/> Other (Specify):</li> </ul> | <ul style="list-style-type: none"> <li><input type="checkbox"/> Conveyor</li> <li><input type="checkbox"/> Pneumatic</li> <li><input type="checkbox"/> Gravity Dump</li> <li><input type="checkbox"/> Other (Specify):</li> </ul> |                                  |  |  |
| 5.2. <ul style="list-style-type: none"> <li><input type="checkbox"/> Straight Truck</li> <li><input type="checkbox"/> Hopper Truck</li> </ul>   | <ul style="list-style-type: none"> <li><input type="checkbox"/> Corn</li> <li><input type="checkbox"/> Wheat</li> </ul>   | <ul style="list-style-type: none"> <li><input type="checkbox"/> Conveyor</li> <li><input type="checkbox"/> Pneumatic</li> </ul>   |                                  |  |  |



**DNREC – Division of Air Quality**  
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| <b><u>Grain Receiving Information</u></b> |  |  |   |  |         |
|---|--|--|---|--|---------|
|   | <input type="checkbox"/> Rail: Boxcar<br><input type="checkbox"/> Rail: Hopper Car<br><input type="checkbox"/> Continuous Barge<br><input type="checkbox"/> Marine Leg<br><input type="checkbox"/> Ship<br><input type="checkbox"/> Other (Specify):   | <input type="checkbox"/> Rye<br><input type="checkbox"/> Oats<br><input type="checkbox"/> Barley<br><input type="checkbox"/> Flax Seed<br><input type="checkbox"/> Sorghum<br><input type="checkbox"/> Soybeans<br><input type="checkbox"/> Other<br>(Specify):  | <input type="checkbox"/> Gravity Dump<br><input type="checkbox"/> Other (Specify):  |  |         |
| 5.3.                                      | <input type="checkbox"/> Straight Truck<br><input type="checkbox"/> Hopper Truck<br><input type="checkbox"/> Rail: Boxcar<br><input type="checkbox"/> Rail: Hopper Car<br><input type="checkbox"/> Continuous Barge<br><input type="checkbox"/> Marine Leg<br><input type="checkbox"/> Ship<br><input type="checkbox"/> Other (Specify): | <input type="checkbox"/> Corn<br><input type="checkbox"/> Wheat<br><input type="checkbox"/> Rye<br><input type="checkbox"/> Oats<br><input type="checkbox"/> Barley<br><input type="checkbox"/> Flax Seed<br><input type="checkbox"/> Sorghum<br><input type="checkbox"/> Soybeans<br><input type="checkbox"/> Other<br>(Specify): | <input type="checkbox"/> Conveyor<br><input type="checkbox"/> Pneumatic<br><input type="checkbox"/> Gravity Dump<br><input type="checkbox"/> Other (Specify): |  |         |
| 5.4.                                      | <input type="checkbox"/> Straight Truck<br><input type="checkbox"/> Hopper Truck<br><input type="checkbox"/> Rail: Boxcar<br><input type="checkbox"/> Rail: Hopper Car<br><input type="checkbox"/> Continuous Barge<br><input type="checkbox"/> Marine Leg<br><input type="checkbox"/> Ship<br><input type="checkbox"/> Other (Specify): | <input type="checkbox"/> Corn<br><input type="checkbox"/> Wheat<br><input type="checkbox"/> Rye<br><input type="checkbox"/> Oats<br><input type="checkbox"/> Barley<br><input type="checkbox"/> Flax Seed<br><input type="checkbox"/> Sorghum<br><input type="checkbox"/> Soybeans<br><input type="checkbox"/> Other<br>(Specify): | <input type="checkbox"/> Conveyor<br><input type="checkbox"/> Pneumatic<br><input type="checkbox"/> Gravity Dump<br><input type="checkbox"/> Other (Specify): |  |         |
| 5.5.                                      | <input type="checkbox"/> Straight Truck<br><input type="checkbox"/> Hopper Truck<br><input type="checkbox"/> Rail: Boxcar<br><input type="checkbox"/> Rail: Hopper Car<br><input type="checkbox"/> Continuous Barge<br><input type="checkbox"/> Marine Leg<br><input type="checkbox"/> Ship<br><input type="checkbox"/> Other (Specify): | <input type="checkbox"/> Corn<br><input type="checkbox"/> Wheat<br><input type="checkbox"/> Rye<br><input type="checkbox"/> Oats<br><input type="checkbox"/> Barley<br><input type="checkbox"/> Flax Seed<br><input type="checkbox"/> Sorghum<br><input type="checkbox"/> Soybeans<br><input type="checkbox"/> Other<br>(Specify): | <input type="checkbox"/> Conveyor<br><input type="checkbox"/> Pneumatic<br><input type="checkbox"/> Gravity Dump<br><input type="checkbox"/> Other (Specify): |  |         |
| 6.  | Number of Receiving Areas at this Facility:  |  |   |  |         |
| 7.  | Maximum Hourly Grain Throughput of All Receiving Areas:  |  |   |  | bushels |
| 8.  | Describe Grain Receiving Equipment:  |  |   |  |         |

| <b><u>Grain Transferring and Conveying Information</u></b>                                  |
|---|
| <i>If Grain Transferring and Conveying activities do not occur, proceed to Question 11.</i> |





**Grain Transferring and Conveying Information**

9. Grain Transferring and Conveying Information

If there are more than five types of grain transferred or conveyed, attach additional copies of this page as needed.

| Type of Grain  | Maximum Quantity Transferred or Conveyed (tons/hour) | Maximum Quantity Transferred or Conveyed (tons/year) |
|--|--|--|
| 9.1. <input type="checkbox"/> Corn <input type="checkbox"/> Flax Seed<br><input type="checkbox"/> Wheat <input type="checkbox"/> Sorghum<br><input type="checkbox"/> Rye <input type="checkbox"/> Soybeans<br><input type="checkbox"/> Oats <input type="checkbox"/> Barley<br><input type="checkbox"/> Other (Specify): |  |  |
| 9.2. <input type="checkbox"/> Corn <input type="checkbox"/> Flax Seed<br><input type="checkbox"/> Wheat <input type="checkbox"/> Sorghum<br><input type="checkbox"/> Rye <input type="checkbox"/> Soybeans<br><input type="checkbox"/> Oats <input type="checkbox"/> Barley<br><input type="checkbox"/> Other (Specify): |  |  |
| 9.3. <input type="checkbox"/> Corn <input type="checkbox"/> Flax Seed<br><input type="checkbox"/> Wheat <input type="checkbox"/> Sorghum<br><input type="checkbox"/> Rye <input type="checkbox"/> Soybeans<br><input type="checkbox"/> Oats <input type="checkbox"/> Barley<br><input type="checkbox"/> Other (Specify): |  |  |
| 9.4. <input type="checkbox"/> Corn <input type="checkbox"/> Flax Seed<br><input type="checkbox"/> Wheat <input type="checkbox"/> Sorghum<br><input type="checkbox"/> Rye <input type="checkbox"/> Soybeans<br><input type="checkbox"/> Oats <input type="checkbox"/> Barley<br><input type="checkbox"/> Other (Specify): |  |  |
| 9.5. <input type="checkbox"/> Corn <input type="checkbox"/> Flax Seed<br><input type="checkbox"/> Wheat <input type="checkbox"/> Sorghum<br><input type="checkbox"/> Rye <input type="checkbox"/> Soybeans<br><input type="checkbox"/> Oats <input type="checkbox"/> Barley<br><input type="checkbox"/> Other (Specify): |  |  |

10. Describe Grain Transferring and Conveying Equipment:

**Grain Processing Information**

If Grain Processing activities do not occur, proceed to Question 13.

11. Grain Processing Information

If there are more than five combinations of grain processed, attach additional copies of this page as needed.

| Type of Grain  | Processing Operation  | Maximum Quantity Processed (tons/hour) | Maximum Quantity Processed (tons/year) |
|--|---|--|--|
| 11.1. <input checked="" type="checkbox"/> Corn <input type="checkbox"/> Flax Seed<br><input checked="" type="checkbox"/> Wheat <input type="checkbox"/> Sorghum<br><input type="checkbox"/> Rye <input checked="" type="checkbox"/> Soybeans<br><input type="checkbox"/> Oats <input type="checkbox"/> Barley<br><input type="checkbox"/> Other (Specify): | <input type="checkbox"/> Scales<br><input type="checkbox"/> Hammermills<br><input type="checkbox"/> Mixers<br><input checked="" type="checkbox"/> Pellet Coolers<br><input type="checkbox"/> Other (Specify): | <b>50</b>                              | <b>438000</b>                          |



**DNREC – Division of Air Quality**  
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| <b>Grain Processing Information</b>   |   |  |  |  |
|---|---|--|--|--|
| 11.2.   | <input type="checkbox"/> Corn<br><input type="checkbox"/> Wheat<br><input type="checkbox"/> Rye<br><input type="checkbox"/> Oats<br><input type="checkbox"/> Other (Specify): | <input type="checkbox"/> Flax Seed<br><input type="checkbox"/> Sorghum<br><input type="checkbox"/> Soybeans<br><input type="checkbox"/> Barley | <input type="checkbox"/> Scales<br><input type="checkbox"/> Hammermills<br><input type="checkbox"/> Mixers<br><input type="checkbox"/> Pellet Coolers<br><input type="checkbox"/> Other (Specify): |  |
| 11.3.   | <input type="checkbox"/> Corn<br><input type="checkbox"/> Wheat<br><input type="checkbox"/> Rye<br><input type="checkbox"/> Oats<br><input type="checkbox"/> Other (Specify): | <input type="checkbox"/> Flax Seed<br><input type="checkbox"/> Sorghum<br><input type="checkbox"/> Soybeans<br><input type="checkbox"/> Barley | <input type="checkbox"/> Scales<br><input type="checkbox"/> Hammermills<br><input type="checkbox"/> Mixers<br><input type="checkbox"/> Pellet Coolers<br><input type="checkbox"/> Other (Specify): |  |
| 11.4.   | <input type="checkbox"/> Corn<br><input type="checkbox"/> Wheat<br><input type="checkbox"/> Rye<br><input type="checkbox"/> Oats<br><input type="checkbox"/> Other (Specify): | <input type="checkbox"/> Flax Seed<br><input type="checkbox"/> Sorghum<br><input type="checkbox"/> Soybeans<br><input type="checkbox"/> Barley | <input type="checkbox"/> Scales<br><input type="checkbox"/> Hammermills<br><input type="checkbox"/> Mixers<br><input type="checkbox"/> Pellet Coolers<br><input type="checkbox"/> Other (Specify): |  |
| 11.5.   | <input type="checkbox"/> Corn<br><input type="checkbox"/> Wheat<br><input type="checkbox"/> Rye<br><input type="checkbox"/> Oats<br><input type="checkbox"/> Other (Specify): | <input type="checkbox"/> Flax Seed<br><input type="checkbox"/> Sorghum<br><input type="checkbox"/> Soybeans<br><input type="checkbox"/> Barley | <input type="checkbox"/> Scales<br><input type="checkbox"/> Hammermills<br><input type="checkbox"/> Mixers<br><input type="checkbox"/> Pellet Coolers<br><input type="checkbox"/> Other (Specify): |  |
| 12. Is Any Other Material Added to the Grain During Processing? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |   |  |  |  |
| <i>If YES, complete the rest of Question 12. If NO, proceed to Question 13.</i>   |   |  |  |  |
| 12.1. Describe the Material(s) Added and the Mixing Ratio:  |   |  |  |  |

| <b>Grain Cleaning and Screening Information</b>   |   |  |  |
|---|---|--|--|
| <i>If Grain Cleaning and Screening activities do not occur, proceed to Question 15.</i>                                     |   |  |  |
| 13. Grain Cleaning and Screening Information  |   |  |  |
| <i>If there are more than five types of grain cleaned and/or screened, attach additional copies of this page as needed.</i> |   |  |  |
|   | <u>Maximum Quantity Cleaned or Screened (tons/hour)</u>   | <u>Maximum Quantity Cleaned or Screened (tons/year)</u>  |  |
| 13.1.   | <input type="checkbox"/> Corn<br><input type="checkbox"/> Wheat<br><input type="checkbox"/> Rye<br><input type="checkbox"/> Oats<br><input type="checkbox"/> Other (Specify): | <input type="checkbox"/> Flax Seed<br><input type="checkbox"/> Sorghum<br><input type="checkbox"/> Soybeans<br><input type="checkbox"/> Barley |  |
| 13.2.   | <input type="checkbox"/> Corn<br><input type="checkbox"/> Wheat<br><input type="checkbox"/> Rye   | <input type="checkbox"/> Flax Seed<br><input type="checkbox"/> Sorghum<br><input type="checkbox"/> Soybeans                                    |  |



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| <b>Grain Cleaning and Screening Information</b> |   |  |  |
|---|---|--|--|
|   | <input type="checkbox"/> Oats <input type="checkbox"/> Barley<br><input type="checkbox"/> Other (Specify):  |  |  |
| 13.3.   | <input type="checkbox"/> Corn <input type="checkbox"/> Flax Seed<br><input type="checkbox"/> Wheat <input type="checkbox"/> Sorghum<br><input type="checkbox"/> Rye <input type="checkbox"/> Soybeans<br><input type="checkbox"/> Oats <input type="checkbox"/> Barley<br><input type="checkbox"/> Other (Specify): |  |  |
| 13.4.   | <input type="checkbox"/> Corn <input type="checkbox"/> Flax Seed<br><input type="checkbox"/> Wheat <input type="checkbox"/> Sorghum<br><input type="checkbox"/> Rye <input type="checkbox"/> Soybeans<br><input type="checkbox"/> Oats <input type="checkbox"/> Barley<br><input type="checkbox"/> Other (Specify): |  |  |
| 13.5  | <input type="checkbox"/> Corn <input type="checkbox"/> Flax Seed<br><input type="checkbox"/> Wheat <input type="checkbox"/> Sorghum<br><input type="checkbox"/> Rye <input type="checkbox"/> Soybeans<br><input type="checkbox"/> Oats <input type="checkbox"/> Barley<br><input type="checkbox"/> Other (Specify): |  |  |
| 14.   | Describe Grain Cleaning and Screening Equipment:  |  |  |

| <b>Grain Drying Information</b>   |   |
|---|---|
| <i>If Grain Drying activities do not occur, proceed to Question 33.</i> |   |
| 15.   | Grain Dryer Equipment ID Number:  |
| 16.   | Grain Dryer Type: <input type="checkbox"/> Column Dryer <input type="checkbox"/> Rack Dryer <input type="checkbox"/> Other (Specify):   |
| 17.   | Manufacturer:   |
| 18.   | Model:  |
| 19.   | Serial Number:  |
| 20.   | Maximum Design Grain Input Capacity at 5 Points Moisture Removal:                      bushels/hour   |
| 21.   | Design Operating Temperature:                      °F   |
| 22.   | Number of Burners in Dryer:   |
| 23.   | Rated Heat Input of Burners:                      MMBTU/hr  |
| 24.   | Total Rated Heat Input of Dryer:                      MMBTU/hr  |
| 25.   | Fuel Used: <input type="checkbox"/> Natural Gas <input type="checkbox"/> Propane<br><input type="checkbox"/> Diesel <input type="checkbox"/> Biodiesel<br><input type="checkbox"/> No. 2 Fuel Oil <input type="checkbox"/> Refinery Fuel Gas<br><input type="checkbox"/> No. 4 Fuel Oil <input type="checkbox"/> Waste Oil<br><input type="checkbox"/> No. 6 Fuel Oil <input type="checkbox"/> Other (specify): |
| 25.1.   | Maximum Annual Fuel Consumption: <b>MMCF</b>  |
| 25.2.   | Heat Content of Fuel: <b>BTU/MMCF</b>   |



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| <u><b>Grain Drying Information</b></u> |  |                                      |  |
|--|--|--------------------------------------|--|
| 25.3.                                  | Maximum Firing Rate:                                   | <b>MMCF/hr</b>                       |  |
| 25.4.                                  | Percent Sulfur of Fuel:                                | %                                    |  |
| 26.                                    | Airflow Through Dryer:                                 | cubic feet/minute                    |  |
| 27.                                    | Grain Dried  |                                      |  |
|  | <u>Grain</u>   | <u>Grain Density<br/>(lb/bushel)</u> | <u>Maximum Hourly Input<br/>(tons/hour)</u>      |
|  |  |                                      | <u>Maximum Annual Throughput<br/>(tons/year)</u> |
| 27.1.                                  | Corn   |                                      |  |
| 27.2.                                  | Wheat  |                                      |  |
| 27.3.                                  | Rye  |                                      |  |
| 27.4.                                  | Oats   |                                      |  |
| 27.5.                                  | Barley   |                                      |  |
| 27.6.                                  | Flax Seed  |                                      |  |
| 27.7.                                  | Sorghum  |                                      |  |
| 27.8.                                  | Soybeans   |                                      |  |
| 27.9.                                  |  |                                      |  |
| 28.                                    | Average Design Percent Moisture In Grain After Drying: | %                                    |  |
| 29.                                    | Grain Dryer Diameter:                                  | <b>feet</b>                          |  |
| 30.                                    | Grain Dryer Height:                                    | <b>feet</b>                          |  |
| 31.                                    | Height of Grain Dryer Exhaust Section:                 | <b>feet</b>                          |  |
| 32.                                    | U.S. Sieve or Tyler Scale Mesh Screen Size:            | <b>Tyler Scale Mesh Size</b>         |  |

| <u><b>Grain Shipping (Load Out) Information</b></u>  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|
| <i>If Grain Shipping activities do not occur, proceed to Question 37.</i>  |  |  |  |  |  |  |
| 33. Types of Vehicles Loaded and Grain Shipped ( <i>check all that apply</i> )   |  |  |  |  |  |  |
| <b>If there are more than five combinations of Vehicles Loaded and Grain Shipped, attach additional copies of this page as needed.</b> |  |  |  |  |  |  |
|  | <u>Type of Vehicle<br/>Loaded</u>  | <u>Type of Grain<br/>Shipped</u>   | <u>Method of<br/>Loading</u>   | <u>Grain<br/>Density<br/>(lb/bushel)</u> | <u>Maximum<br/>Quantity<br/>Loaded<br/>(tons/hour)</u> | <u>Maximum<br/>Quantity<br/>Loaded<br/>(tons/year)</u> |
| 33.1.  | <input type="checkbox"/> Straight Truck<br><input type="checkbox"/> Hopper Truck<br><input type="checkbox"/> Rail: Boxcar<br><input type="checkbox"/> Rail: Hopper Car<br><input type="checkbox"/> Continuous Barge<br><input type="checkbox"/> Marine Leg<br><input type="checkbox"/> Ship<br><input type="checkbox"/> Other (Specify): | <input type="checkbox"/> Corn<br><input type="checkbox"/> Wheat<br><input type="checkbox"/> Rye<br><input type="checkbox"/> Oats<br><input type="checkbox"/> Barley<br><input type="checkbox"/> Flax Seed<br><input type="checkbox"/> Sorghum<br><input type="checkbox"/> Soybeans | <input type="checkbox"/> Conveyor<br><input type="checkbox"/> Pneumatic<br><input type="checkbox"/> Gravity Dump<br><input type="checkbox"/> Other<br>(Specify): |  |  |  |



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| <u>Grain Shipping (Load Out) Information</u> |  |  |  |  |  |
|--|--|--|--|--|--|
|  | <input type="checkbox"/> Other<br>(Specify):   |  |  |  |  |
| 33.2.  | <input type="checkbox"/> Straight Truck<br><input type="checkbox"/> Hopper Truck<br><input type="checkbox"/> Rail: Boxcar<br><input type="checkbox"/> Rail: Hopper Car<br><input type="checkbox"/> Continuous Barge<br><input type="checkbox"/> Marine Leg<br><input type="checkbox"/> Ship<br><input type="checkbox"/> Other (Specify): | <input type="checkbox"/> Corn<br><input type="checkbox"/> Wheat<br><input type="checkbox"/> Rye<br><input type="checkbox"/> Oats<br><input type="checkbox"/> Barley<br><input type="checkbox"/> Flax Seed<br><input type="checkbox"/> Sorghum<br><input type="checkbox"/> Soybeans<br><input type="checkbox"/> Other<br>(Specify): | <input type="checkbox"/> Conveyor<br><input type="checkbox"/> Pneumatic<br><input type="checkbox"/> Gravity Dump<br><input type="checkbox"/> Other<br>(Specify): |  |  |
| 33.3.  | <input type="checkbox"/> Straight Truck<br><input type="checkbox"/> Hopper Truck<br><input type="checkbox"/> Rail: Boxcar<br><input type="checkbox"/> Rail: Hopper Car<br><input type="checkbox"/> Continuous Barge<br><input type="checkbox"/> Marine Leg<br><input type="checkbox"/> Ship<br><input type="checkbox"/> Other (Specify): | <input type="checkbox"/> Corn<br><input type="checkbox"/> Wheat<br><input type="checkbox"/> Rye<br><input type="checkbox"/> Oats<br><input type="checkbox"/> Barley<br><input type="checkbox"/> Flax Seed<br><input type="checkbox"/> Sorghum<br><input type="checkbox"/> Soybeans<br><input type="checkbox"/> Other<br>(Specify): | <input type="checkbox"/> Conveyor<br><input type="checkbox"/> Pneumatic<br><input type="checkbox"/> Gravity Dump<br><input type="checkbox"/> Other<br>(Specify): |  |  |
| 33.4.  | <input type="checkbox"/> Straight Truck<br><input type="checkbox"/> Hopper Truck<br><input type="checkbox"/> Rail: Boxcar<br><input type="checkbox"/> Rail: Hopper Car<br><input type="checkbox"/> Continuous Barge<br><input type="checkbox"/> Marine Leg<br><input type="checkbox"/> Ship<br><input type="checkbox"/> Other (Specify): | <input type="checkbox"/> Corn<br><input type="checkbox"/> Wheat<br><input type="checkbox"/> Rye<br><input type="checkbox"/> Oats<br><input type="checkbox"/> Barley<br><input type="checkbox"/> Flax Seed<br><input type="checkbox"/> Sorghum<br><input type="checkbox"/> Soybeans<br><input type="checkbox"/> Other<br>(Specify): | <input type="checkbox"/> Conveyor<br><input type="checkbox"/> Pneumatic<br><input type="checkbox"/> Gravity Dump<br><input type="checkbox"/> Other<br>(Specify): |  |  |
| 33.5.  | <input type="checkbox"/> Straight Truck<br><input type="checkbox"/> Hopper Truck<br><input type="checkbox"/> Rail: Boxcar<br><input type="checkbox"/> Rail: Hopper Car<br><input type="checkbox"/> Continuous Barge<br><input type="checkbox"/> Marine Leg<br><input type="checkbox"/> Ship<br><input type="checkbox"/> Other (Specify): | <input type="checkbox"/> Corn<br><input type="checkbox"/> Wheat<br><input type="checkbox"/> Rye<br><input type="checkbox"/> Oats<br><input type="checkbox"/> Barley<br><input type="checkbox"/> Flax Seed<br><input type="checkbox"/> Sorghum<br><input type="checkbox"/> Soybeans<br><input type="checkbox"/> Other<br>(Specify): | <input type="checkbox"/> Conveyor<br><input type="checkbox"/> Pneumatic<br><input type="checkbox"/> Gravity Dump<br><input type="checkbox"/> Other<br>(Specify): |  |  |
| 34.  | Number of Loading Areas at this Facility:  |  |  |  |  |
| 35.  | Maximum Hourly Grain Throughput of All Loading Areas:  |  | bushels  |  |  |
| 36.  | Describe Grain Loading Equipment:  |  |  |  |  |





| <b><u>Control Device Information</u></b>  |   |
|---|---|
| 37. Is an Air Pollution Control Device Used?  | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| <i>If an Air Pollution Control Device is used, complete the rest of Question 37. If not, proceed to Question 38.</i>  |   |
| 37.1. Is Knockout Used?   | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| If YES, complete Form AQM-4.11 and attach it to this application.   |   |
| 37.2. Is a Settling Chamber Used?   | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| If YES, complete Form AQM-4.10 and attach it to this application.   |   |
| 37.3. Is an Inertial or Cyclone Collector Used?   | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| If YES, complete Form AQM-4.5 and attach it to this application.  |   |
| 37.4. Is a Fabric Collector or Baghouse Used?   | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| If YES, complete Form AQM-4.6 and attach it to this application.  |   |
| 37.5. Is a Venturi Scrubber Used?   | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| If YES, complete Form AQM-4.8 and attach it to this application.  |   |
| 37.6. Is an Electrostatic Precipitator Used?  | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| If YES, complete Form AQM-4.7 and attach it to this application.  |   |
| 37.7. Is Any Other Control Device Used?   | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| If YES, attach a copy of the control device Manufacturer's Specification Sheet(s).  |   |
| <i>If any other control device is used, complete the rest of Question 37. If not, proceed to Question 38.</i>   |   |
| 37.8. Describe Control Device:  |   |
|   |   |
| 37.9. Pollutants Controlled: <input type="checkbox"/> PM <input type="checkbox"/> PM <sub>10</sub> <input type="checkbox"/> PM <sub>2.5</sub> <input type="checkbox"/> Other (Specify): |   |
| 37.10. Control Device Manufacturer:   |   |
| 37.11. Control Device Model:  |   |
| 37.12. Control Device Serial Number:  |   |
| 37.13. Control Device Design Capacity:  |   |
| 37.14. Control Device Removal or Destruction Efficiency:  |   |

| <b><u>Stack Information</u></b>  |  |
|--|--|
| 38. How Does the Process Equipment Vent:   | (check all that apply)   |
|  | <input type="checkbox"/> Directly to the Atmosphere  |
|  | <input checked="" type="checkbox"/> Through a Control Device Covered by Forms AQM-4.1 through 4.12 |
|  | <input type="checkbox"/> Through Another Control Device Described on This Form                     |
| <i>If any of the process equipment vents directly to the atmosphere or through another control device described on this form, proceed to Question 39. If the process equipment vents through a control device, provide the stack parameters on the control device form and proceed to Question 43.</i> |  |
| 39. Number of Air Contaminant Emission Points:   |  |
| If there are more than three Emission Points, attach additional copies of this page as needed.   |  |
| For the first Emission Point   |  |



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| <u><b>Stack Information</b></u>   |   |
|---|---|
| 40.   | Emission Point Name:  |
| 40.1.   | Stack Height Above Grade: <b>feet</b>   |
| 40.2.   | Stack Exit Diameter: <b>feet</b><br><i>(Provide Stack Dimensions If Rectangular Stack)</i>  |
| 40.3.   | Is a Stack Cap Present? <input type="checkbox"/> YES <input type="checkbox"/> NO  |
| 40.4.   | Stack Configuration: <input type="checkbox"/> Vertical <input type="checkbox"/> Horizontal <input type="checkbox"/> Downward-Venting<br><i>(check all that apply)</i> <input type="checkbox"/> Other (Specify): |
| 40.5.   | Stack Exit Gas Temperature: <b>°F</b>   |
| 40.6.   | Stack Exit Gas Flow Rate: <b>ACFM</b>   |
| 40.7.   | Distance to Nearest Property Line: <b>feet</b>  |
| 40.8.   | Describe Nearest Obstruction:   |
| 40.9.   | Height of Nearest Obstruction: <b>feet</b>  |
| 40.10.  | Distance to Nearest Obstruction: <b>feet</b>  |
| 40.11.  | Are Stack Sampling Ports Provided? <input type="checkbox"/> YES <input type="checkbox"/> NO   |
| <i>For the second Emission Point. If there is no second Emission Point, proceed to Question 43.</i> |   |
| 41.   | Emission Point Name:  |
| 41.1.   | Stack Height Above Grade: <b>feet</b>   |
| 41.2.   | Stack Exit Diameter: <b>feet</b><br><i>(Provide Stack Dimensions If Rectangular Stack)</i>  |
| 41.3.   | Is a Stack Cap Present? <input type="checkbox"/> YES <input type="checkbox"/> NO  |
| 41.4.   | Stack Configuration: <input type="checkbox"/> Vertical <input type="checkbox"/> Horizontal <input type="checkbox"/> Downward-Venting<br><i>(check all that apply)</i> <input type="checkbox"/> Other (Specify): |
| 41.5.   | Stack Exit Gas Temperature: <b>°F</b>   |
| 41.6.   | Stack Exit Gas Flow Rate: <b>ACFM</b>   |
| 41.7.   | Distance to Nearest Property Line: <b>feet</b>  |
| 41.8.   | Describe Nearest Obstruction:   |
| 41.9.   | Height of Nearest Obstruction: <b>feet</b>  |
| 41.10.  | Distance to Nearest Obstruction: <b>feet</b>  |
| 41.11.  | Are Stack Sampling Ports Provided? <input type="checkbox"/> YES <input type="checkbox"/> NO   |
| <i>For the third Emission Point. If there is no third Emission Point, proceed to Question 43.</i>   |   |
| 42.   | Emission Point Name:  |
| 42.1.   | Stack Height Above Grade: <b>feet</b>   |
| 42.2.   | Stack Exit Diameter: <b>feet</b><br><i>(Provide Stack Dimensions If Rectangular Stack)</i>  |
| 42.3.   | Is a Stack Cap Present? <input type="checkbox"/> YES <input type="checkbox"/> NO  |
| 42.4.   | Stack Configuration: <input type="checkbox"/> Vertical <input type="checkbox"/> Horizontal <input type="checkbox"/> Downward-Venting<br><i>(check all that apply)</i> <input type="checkbox"/> Other (Specify): |
| 42.5.   | Stack Exit Gas Temperature: <b>°F</b>   |



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| <u><b>Stack Information</b></u>           |  |
|---|--|
| 42.6. Stack Exit Gas Flow Rate:           | <b>ACFM</b>  |
| 42.7. Distance to Nearest Property Line:  | <b>feet</b>  |
| 42.8. Describe Nearest Obstruction:       |  |
| 42.9. Height of Nearest Obstruction:      | <b>feet</b>  |
| 42.10. Distance to Nearest Obstruction:   | <b>feet</b>  |
| 42.11. Are Stack Sampling Ports Provided? | <input type="checkbox"/> YES <input type="checkbox"/> NO |

| <u><b>Visible Emissions Monitoring Information</b></u>  |  |
|---|--|
| 43. Proposed Technique Used to Monitor Visible Emissions:   | <input type="checkbox"/> Opacity Monitor (COM)<br><input type="checkbox"/> Manual (Method 9)<br><input type="checkbox"/> Manual (Method 22)<br><input checked="" type="checkbox"/> Other (Describe): |
| <i>If an Opacity Monitor (COM) is used, complete the rest of Question 43. If not, proceed to Question 44.</i> |  |
| 43.1. Describe the Continuous Opacity Monitoring System:  |  |
| 43.2. Manufacturer:   |  |
| 43.3. Model:  |  |
| 43.4. Serial Number:  |  |
| 44. Proposed Frequency of Opacity Monitoring:   |  |

| <u><b>Monitoring and Alarm Information</b></u>  |                               |                        |  |   |
|---|-------------------------------|------------------------|--|---|
| 45. Are There Any Alarms You Would Like the Department to Consider When Drafting the Permit? <span style="float: right;"><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</span> |                               |                        |  |   |
| <i>If YES, complete the rest of Question 45. If NO, proceed to Question 46.</i>   |                               |                        |  |   |
| 45.1. Describe the System Alarm(s):   |                               |                        |  |   |
| <i>If there are more than five alarms, attach additional copies of this page as needed.</i>   |                               |                        |  |   |
|   | Operating Parameter Monitored | Describe Alarm Trigger | Monitoring Device or Alarm Type  | Does the Alarm Initiate an Automated Response?                        |
| 45.1.1.   |                               |                        | <input type="checkbox"/> Visual<br><input type="checkbox"/> Auditory<br><input type="checkbox"/> Automatic (Remote Monitoring)<br><input type="checkbox"/> Other | <input type="checkbox"/> NO <input type="checkbox"/> YES<br>Describe: |
| 45.1.2.   |                               |                        | <input type="checkbox"/> Visual<br><input type="checkbox"/> Auditory<br><input type="checkbox"/> Automatic (Remote Monitoring)<br><input type="checkbox"/> Other | <input type="checkbox"/> NO <input type="checkbox"/> YES<br>Describe: |
| 45.1.3.   |                               |                        | <input type="checkbox"/> Visual  | <input type="checkbox"/> NO <input type="checkbox"/> YES              |



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| <u>Monitoring and Alarm Information</u> |  |  |   |   |
|---|--|--|---|---|
|   |  |  | <input type="checkbox"/> Auditory<br><input type="checkbox"/> Automatic<br>(Remote Monitoring)<br><input type="checkbox"/> Other                                    | Describe:   |
| 45.1.4.                                 |  |  | <input type="checkbox"/> Visual<br><input type="checkbox"/> Auditory<br><input type="checkbox"/> Automatic<br>(Remote Monitoring)<br><input type="checkbox"/> Other | <input type="checkbox"/> NO <input type="checkbox"/> YES<br>Describe: |
| 45.1.5.                                 |  |  | <input type="checkbox"/> Visual<br><input type="checkbox"/> Auditory<br><input type="checkbox"/> Automatic<br>(Remote Monitoring)<br><input type="checkbox"/> Other | <input type="checkbox"/> NO <input type="checkbox"/> YES<br>Describe: |

| <u>Voluntary Emission Limitation Request Information</u>  |   |
|---|---|
| 46. Are You Requesting Any <u>Voluntary Emission Limitations</u> to Avoid Major Source Status, Minor New Source Review, MACT, NSPS, etc.? | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| <i>If YES, complete the rest of Question 46. If NO, proceed to Question 47.</i>   |   |
| 46.1. Describe Any Proposed Emission Limitations:   |   |

| <u>Voluntary Operating Limitation Request Information</u>  |   |
|--|---|
| 47. Are You Requesting Any <u>Voluntary Operating Limitations</u> to Avoid Major Source Status, Minor New Source Review, MACT, NSPS, etc.? | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| <i>If YES, complete the rest of Question 47. If NO, proceed to Question 48.</i>  |   |
| 47.1. Describe Any Proposed Operating Limitations:   |   |

| <u>Additional Information</u>   |   |
|---|---|
| 48. Is There Any Additional Information Pertinent to this Application?  | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| <i>If YES, complete the rest of Question 48.</i>  |   |
| 48.1. Describe: <b>Control device information per AQM 4.1 is not changing and should be referenced from the previous pellet cooler #1 permit application (Koger-Air model 2H54 high efficiency cyclones). The only modification is the replacement of the pellet cooler itself.</b> |   |



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**Emissions Information Application**

*If you are using this form electronically, press F1 at any time for help*

| <u>Process Information</u> |  |
|----------------------------|--|
| 1.                         | Number of Individual Pieces of Process Equipment in Process: 1 |
| 2.                         | Number of Individual Control Devices in Process: 1             |

| <u>Emissions Information for First Emission Point/Stack</u> |  |
|---|--|
| 3.  | Emission Point Name: #1 Pellet Cooler  |
| 4.  | Equipment ID Number for all Process Equipment and Control Devices Venting Through Emission Point/Stack: #1 Pellet Cooler |
| 5.  | Pollutant Emissions  |

| If more than 15 pollutants are emitted at this Emission Point/Stack, attach additional copies of this page as needed. |  |   |   |                                   |   |  |
|---|--|---|---|-----------------------------------|---|--|
| Pollutant Name<br>(Specify VOCs and HAPs<br>Individually in 5.10 through 5.18)  | CAS Number<br>(Not required for<br>5.1 through 5.10) | Maximum Uncontrolled<br>Emission Rate at<br>Design Capacity | Maximum Controlled<br>Emission Rate at<br>Design Capacity | Annual Potential<br>to Emit (PTE) | Requested<br>Permitted<br>Annual<br>Emissions |  |
| 5.1. Particulate Matter (PM)  |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |  |
| 5.2. PM <sub>10</sub>   | N/A  | 3.75 lbs/hour   | 3.75 lbs/hour   | 16.425 tons/year                  | 16.425 tons/year                              |  |
| 5.3. PM <sub>2.5</sub>  |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |  |
| 5.4. Sulfur Oxides (SO <sub>x</sub> )   |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |  |
| 5.5. Nitrogen Oxides (NO <sub>x</sub> )   |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |  |
| 5.6. Carbon Monoxide (CO)   |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |  |
| 5.7. Total Volatile Organic<br>Compounds (VOCs)   |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |  |
| 5.8. Total Hazardous Air  |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |  |





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| <u>Emissions Information for First Emission Point/Stack</u>   |          |          |           |           |
|---|----------|----------|-----------|-----------|
| Pollutants (HAPs)   |          |          |           |           |
| 5.9. CO <sub>2</sub>  | lbs/hour | lbs/hour | tons/year | tons/year |
| 5.10. CO <sub>2e</sub>  | lbs/hour | lbs/hour | tons/year | tons/year |
| 5.11.   | lbs/hour | lbs/hour | tons/year | tons/year |
| 5.12.   | lbs/hour | lbs/hour | tons/year | tons/year |
| 5.13.   | lbs/hour | lbs/hour | tons/year | tons/year |
| 5.14.   | lbs/hour | lbs/hour | tons/year | tons/year |
| 5.15.   | lbs/hour | lbs/hour | tons/year | tons/year |
| 6. Provide Any Additional Information Necessary to Understanding the Emission Rates Provided Above: |          |          |           |           |
| Attach the Basis of Determination or Calculations for each Emission Rate provided above.            |          |          |           |           |

| <u>Emissions Information for Second Emission Point/Stack</u>  |  |   |   |                                   |   |
|---|--|---|---|-----------------------------------|---|
| 7. Emission Point Name:   |  |   |   |                                   |   |
| 8. Equipment ID Number for all Process Equipment and Control Devices Venting Through Emission Point/Stack:            |  |   |   |                                   |   |
| 9. Pollutant Emissions  |  |   |   |                                   |   |
| If more than 15 pollutants are emitted at this Emission Point/Stack, attach additional copies of this page as needed. |  |   |   |                                   |   |
| Pollutant Name<br>(Specify VOCs and HAPs<br>individually in 9.10 through 9.18)  | CAS Number<br>(Not required for<br>9.1 through 9.10) | Maximum Uncontrolled<br>Emission Rate at<br>Design Capacity | Maximum Controlled<br>Emission Rate at<br>Design Capacity | Annual Potential<br>to Emit (PTE) | Requested<br>Permitted<br>Annual<br>Emissions |
| 9.1. Particulate Matter (PM)  |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |
| 9.2. PM <sub>10</sub>   |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |



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| <b>Emissions Information for Second Emission Point/Stack</b>   |          |          |          |           |
|--|----------|----------|----------|-----------|
|  | lbs/hour | lbs/hour | lbs/hour | tons/year |
| 9.3. PM <sub>2.5</sub>   |          |          |          | tons/year |
| 9.4. Sulfur Oxides (SO <sub>x</sub> )  | lbs/hour | lbs/hour | lbs/hour | tons/year |
| 9.5. Nitrogen Oxides (NO <sub>x</sub> )  | lbs/hour | lbs/hour | lbs/hour | tons/year |
| 9.6. Carbon Monoxide (CO)  | lbs/hour | lbs/hour | lbs/hour | tons/year |
| 9.7. Total Volatile Organic Compounds (VOCs)   | lbs/hour | lbs/hour | lbs/hour | tons/year |
| 9.8. Total Hazardous Air Pollutants (HAPs)   | lbs/hour | lbs/hour | lbs/hour | tons/year |
| 9.9. CO <sub>2</sub>   | lbs/hour | lbs/hour | lbs/hour | tons/year |
| 9.10. CO <sub>2e</sub>   | lbs/hour | lbs/hour | lbs/hour | tons/year |
| 9.11.  | lbs/hour | lbs/hour | lbs/hour | tons/year |
| 9.12.  | lbs/hour | lbs/hour | lbs/hour | tons/year |
| 9.13.  | lbs/hour | lbs/hour | lbs/hour | tons/year |
| 9.14.  | lbs/hour | lbs/hour | lbs/hour | tons/year |
| 9.15.  | lbs/hour | lbs/hour | lbs/hour | tons/year |
| 10. Provide Any Additional Information Necessary to Understanding the Emission Rates Provided Above: |          |          |          |           |
| Attach the Basis of Determination or Calculations for each Emission Rate provided above.             |          |          |          |           |

| <b>Emissions Information for Third Emission Point/Stack</b>   |  |
|---|--|
| 11. Emission Point Name:  |  |
| 12. Equipment ID Number for all Process Equipment and Control Devices Venting Through Emission Point/Stack: |  |
| 13. Pollutant Emissions   |  |



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**Emissions Information for Third Emission Point/Stack**

If more than 15 pollutants are emitted at this Emission Point/Stack, attach additional copies of this page as needed.

| Pollutant Name<br>(Specify VOCs and HAPs<br>Individually in 13.10 through<br>13.18)                  | CAS Number<br>(Not required for<br>13.1 through 13.10) | Maximum Uncontrolled<br>Emission Rate at<br>Design Capacity | Maximum Controlled<br>Emission Rate at<br>Design Capacity | Annual Potential<br>to Emit (PTE) | Requested<br>Permitted<br>Annual<br>Emissions |
|--|--|---|---|-----------------------------------|---|
| 13.1. Particulate Matter (PM)  |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |
| 13.2. PM <sub>10</sub>   |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |
| 13.3. PM <sub>2.5</sub>  |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |
| 13.4. Sulfur Oxides (SO <sub>x</sub> )   |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |
| 13.5. Nitrogen Oxides (NO <sub>x</sub> )   |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |
| 13.6. Carbon Monoxide (CO)   |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |
| 13.7. Total Volatile Organic<br>Compounds (VOCs)   |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |
| 13.8. Total Hazardous Air<br>Pollutants (HAPs)   |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |
| 13.9. CO <sub>2</sub>  |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |
| 13.10. CO <sub>2e</sub>  |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |
| 13.11.   |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |
| 13.12.   |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |
| 13.13.   |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |
| 13.14.   |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |
| 13.15.   |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |
| 14. Provide Any Additional Information Necessary to Understanding the Emission Rates Provided Above: |  |   |   |                                   |   |



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**Emissions Information for Third Emission Point/Stack**

Attach the Basis of Determination or Calculations for each Emission Rate provided above.

**Emissions Information for Fourth Emission Point/Stack**

15. Emission Point Name:  
 16. Equipment ID Number for all Process Equipment and Control Devices Venting Through Emission Point/Stack:  
 17. Pollutant Emissions

if more than 15 pollutants are emitted at this Emission Point/Stack, attach additional copies of this page as needed.

| Pollutant Name<br>(Specify VOCs and HAPs<br>Individually in 17.10 through<br>17.18) | CAS Number<br>(Not required for<br>17.1 through 17.10) | Maximum Uncontrolled<br>Emission Rate at<br>Design Capacity | Maximum Controlled<br>Emission Rate at<br>Design Capacity | Annual Potential<br>to Emit (PTE) | Requested<br>Permitted<br>Annual<br>Emissions |
|---|--|---|---|-----------------------------------|---|
| 17.1. Particulate Matter (PM)   |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |
| 17.2. PM <sub>10</sub>  |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |
| 17.3. PM <sub>2.5</sub>   |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |
| 17.4. Sulfur Oxides (SO <sub>x</sub> )  |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |
| 17.5. Nitrogen Oxides (NO <sub>x</sub> )  |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |
| 17.6. Carbon Monoxide (CO)  |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |
| 17.7. Volatile Organic<br>Compounds (VOCs)  |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |
| 17.8. Total Hazardous Air<br>Pollutants (HAPs)                                      |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |
| 17.9. CO <sub>2</sub>   |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |
| 17.10. CO <sub>2e</sub>   |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |
| 17.11.  |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |
| 17.12.  |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |



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| <b><u>Emissions Information for Fourth Emission Point/Stack</u></b>                                  |          |          |           |
|--|----------|----------|-----------|
|  | lbs/hour | lbs/hour | tons/year |
| 17.13.   |          |          | tons/year |
| 17.14.   | lbs/hour | lbs/hour | tons/year |
| 17.15.   | lbs/hour | lbs/hour | tons/year |
| 18. Provide Any Additional Information Necessary to Understanding the Emission Rates Provided Above: |          |          |           |
|  |          |          |           |
| Attach the Basis of Determination or Calculations for each Emission Rate provided above.             |          |          |           |
| If there are more than four Emission Points/Stacks, attach additional copies of this form as needed. |          |          |           |

**Overall Process Emissions**

| 19. Pollutant Emissions  |  |   |   |                                   |   |
|--|--|---|---|-----------------------------------|---|
| If more than 15 pollutants are emitted from this Process, attach additional copies of this page as needed. |  |   |   |                                   |   |
| Pollutant Name<br>(Specify VOCs and HAPs<br>Individually in 19.10 through<br>19.18)                        | CAS Number<br>(Not required for<br>19.1 through 19.10) | Maximum Uncontrolled<br>Emission Rate at<br>Design Capacity | Maximum Controlled<br>Emission Rate at<br>Design Capacity | Annual Potential<br>to Emit (PTE) | Requested<br>Permitted<br>Annual<br>Emissions |
| 19.1. Particulate Matter (PM)  |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |
| 19.2. PM <sub>10</sub>   |  | 3.75 lbs/hour   | 3.75 lbs/hour   | 16.425 tons/year                  | 16.425 tons/year                              |
| 19.3. PM <sub>2.5</sub>  |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |
| 19.4. Sulfur Oxides (SO <sub>x</sub> )   |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |
| 19.5. Nitrogen Oxides (NO <sub>x</sub> )   |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |
| 19.6. Carbon Monoxide (CO)   |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |
| 19.7. Total Volatile Organic<br>Compounds (VOCs)   |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |
| 19.8. Total Hazardous Air<br>Pollutants (HAPs)   |  | lbs/hour  | lbs/hour  | tons/year                         | tons/year                                     |





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| <u>Overall Process Emissions</u>   |          |          |          |           |
|--|----------|----------|----------|-----------|
|  | lbs/hour | lbs/hour | lbs/hour | tons/year |
| 19.9. CO <sub>2</sub>  |          |          |          | tons/year |
| 19.10. CO <sub>2e</sub>  |          |          |          | tons/year |
| 19.12.   |          |          |          | tons/year |
| 19.13.   |          |          |          | tons/year |
| 19.14.   |          |          |          | tons/year |
| 19.15.   |          |          |          | tons/year |
| 20. Provide Any Additional Information Necessary to Understanding the Emission Rates Provided Above: |          |          |          |           |
| Attach the Basis of Determination or Calculations for each Emission Rate provided above.             |          |          |          |           |

**Minor New Source Review Information**

21. Does the Process Have the Potential to Emit More Than Five Tons Per Year of Any Pollutant?     YES     NO

22. Is the Source New or Existing?     NEW     EXISTING  
See Question 11 of AQM-1

If the Process has the Potential to Emit more than five tons per year of any pollutant, and is a New Source, a Control Technology Analysis pursuant to Regulation No. 1125 Section 4 must be conducted and attached to this application.

**Major New Source Review Information**

23. Does the Process Have the Potential to Emit More Than the Significance Level for Any Pollutant? (Check All That Apply)



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- Greater Than 25 Tons Per Year of Particulate Matter (PM)
- Greater Than 15 Tons Per Year of PM<sub>10</sub>
- Greater Than 10 Tons Per Year of PM<sub>2.5</sub>
- Greater Than 40 Tons Per Year of Sulfur Dioxide(SO<sub>2</sub>)
- Greater Than 25 Tons Per Year of Nitrogen Oxides (NO<sub>x</sub>) in New Castle and Kent County
- Greater Than 100 Tons Per Year of Nitrogen Oxides (NO<sub>x</sub>) in Sussex County
- Greater Than 100 Tons Per Year of Carbon Monoxide (CO)
- Greater Than 25 Tons Per Year of Total Volatile Organic Compounds (VOCs) in New Castle and Kent County
- Greater Than 50 Tons Per Year of Total Volatile Organic Compounds (VOCs) in Sussex County
- Greater Than 75,000 Tons Per Year of Equivalent Carbon Dioxide (CO<sub>2e</sub>)

If the Process has the Potential to Emit greater than any of the amounts listed above 7 DE Admin. Code 1125 Sections 2 and/or 3 apply. Contact the Department at (302) 323-4542 or (302) 739-9402 for additional information

**Additional Information**

24. Is There Any Additional Information Pertinent to this Application?  YES  NO

If YES, complete the rest of Question 24.

24.1. Describe:

**Pellet Cooler Cyclone #1 EU 54**

Pellet Mill #1 50  
Pellet Cooler (t/hr): 50  
Hours/day of operation: 24  
PM 10 factor (table 9.9.1-2)(#/ton feed): 0.075

Note: PM 10 factor: .5\* 0.15 for high eff. Cyclone per table 9.9.1-2

PM 10= 0.075 #/ton \* 50 t/hr \* 8760 hr/yr \* T/2000 #= tpy PM 10

**Pellet Cooler Cyclone #1 (using maximum hours)**

| <b>Pollutant</b> | <b>Emission Factor (#/ton)</b> | <b>Hourly Emissions (lb/hr)</b> | <b>PTE (tons/yr)</b> |
|------------------|--------------------------------|---------------------------------|----------------------|
| PM               | 0.15                           | 7.5                             | 32.85                |
| PM-10            | 0.075                          | 3.75                            | 16.425               |

Table 9.9.1-2. PARTICULATE EMISSION FACTORS FOR GRAIN PROCESSING FACILITIES<sup>a</sup>

| Type of Facility/<br>Emission Source                           | Type of<br>Control                      | Filterable <sup>b</sup> |                              |                     | Condensable PM <sup>c</sup> |         |                    | EMISSION<br>FACTOR<br>RATING |
|--|---|-------------------------|------------------------------|---------------------|-----------------------------|---------|--------------------|------------------------------|
|  |   | PM                      | EMISSION<br>FACTOR<br>RATING | PM-10 <sup>d</sup>  | Inorganic                   | Organic | Total              |                              |
| Animal feed mills<br>Grain receiving<br>(SCC 3-02-008-02)      | None                                    | 0.017 <sup>e</sup>      | E                            | 0.0025 <sup>e</sup> |                             |         |                    |                              |
| Grain cleaning<br>(SCC 3-02-008-07)                            | Cyclone                                 | (f)                     |                              | (f)                 |                             |         |                    |                              |
| Storage  | None                                    | ND                      |                              | ND                  |                             |         |                    |                              |
| Grain milling<br>(SCC 3-02-008-15)                             |   |                         |                              |                     |                             |         |                    |                              |
| Hammermill<br>(SCC 3-02-008-17)                                | Cyclone                                 | 0.067 <sup>h</sup>      | E                            | (g)                 |                             |         |                    |                              |
|  | Baghouse                                | 0.012 <sup>i</sup>      | E                            | (v)                 |                             |         |                    |                              |
| Flaker<br>(SCC 3-02-008-18)                                    | Cyclone                                 | 0.15 <sup>k</sup>       | E                            | (g)                 |                             |         |                    |                              |
| Grain cracker<br>(SCC 3-02-008-19)                             | Cyclone                                 | 0.024 <sup>k</sup>      | E                            | (g)                 |                             |         |                    |                              |
| Mixer  | None                                    | ND                      |                              | ND                  |                             |         |                    |                              |
| Conditioning   | None                                    | ND                      |                              | ND                  |                             |         |                    |                              |
| Pelletizing<br>Pellet cooler <sup>m</sup><br>(SCC 3-02-008-16) | Cyclone                                 | 0.36 <sup>n</sup>       | E                            | (g)                 |                             |         |                    | E                            |
|  | High efficiency<br>cyclone <sup>l</sup> | 0.15 <sup>q</sup>       | E                            | (g)                 |                             |         | 0.059 <sup>p</sup> |                              |
| Feed shipping<br>(SCC 3-02-008-03)                             | None                                    | 0.0033 <sup>e</sup>     | E                            | 0.0008 <sup>e</sup> |                             |         |                    |                              |
| Wheat flour mills<br>Grain receiving<br>(SCC 3-02-007-31)      | None                                    | (f)                     |                              | (f)                 |                             |         |                    |                              |
| Grain handling<br>(SCC 3-02-007-32)<br>(legs, belts, etc.)     | None                                    | (f)                     |                              | (f)                 |                             |         |                    |                              |