

**INSTRUCTIONS:**

**Section 5.1: Grain Handling Facility Information**

**IMPORTANT:** Do NOT use pencil to fill out the application. Please type responses or print using black ink. If you have any questions, feel free to contact the Nebraska Department of Water, Energy, and Environment (DWEE) via [DWEE.AirQuality@nebraska.gov](mailto:DWEE.AirQuality@nebraska.gov) or the Air Quality Permitting Section at (402) 471-2186.

Complete the information on the top of each page. Enter the name of the facility as it is known in Nebraska. The facility name on every page of the operating permit application should be identical. Enter the date the form was completed. Enter the DWEE Facility Identification number (ID) assigned by the DWEE. If this is a new facility, leave the DWEE Facility Identification box blank. If this is an existing facility, contact the Department if this number is unknown.

**General Information**

- 1) Input the type(s) of grain that is or is expected to be received/handled at this facility (examples: corn, milo, wheat, soybeans, etc.).
- 2) Enter the maximum amount of grain that has been handled by this facility within the past five years. If this is a new facility, select the N/A box as this facility has not operated in the past five years.
- 3) Enter the maximum amount of grain that is able to be handled by the facility if the facility was operating at maximum capacity. If this is an existing facility that is expanding or a new facility, enter the maximum amount of grain the equipment will physically be able to receive after the permitting action is complete and permitted equipment is installed.
- 4) If you are requesting an annual throughput limitation on how much grain you can receive each year, indicate the requested throughput limitation. If you are not requesting an annual throughput limit, select the N/A box. A facility may request an annual throughput limitation in order to obtain some type of minor source status or to demonstrate compliance with the ambient air quality standards if air dispersion modeling is required.
- 5) Attachment of manufacturer's specifications are required for: **step 11) grain scalper(s) and hammermill(s); and step 12) grain dryer(s).**

**Receiving and Shipping Information**

- 6) Indicate the number of dump pits and/or loadout spouts that exist at the facility. If your facility will receive or ship grain via a method that is different from truck and rail, please contact the Department. Be sure to indicate the current number and the anticipated number of each type of dump pit or loadout spout. The anticipated total is the number of units that will be located at the facility after the permitting action is complete.
- 7) For each unloading and loadout area, list each unit associated with the operations (by unit name) and select the proper descriptions that reflect the configuration of the unit. If more than five unloading and loadout units exist at the facility, then multiple Section 5.1 page 1 forms should be completed for the facility in order for all unloading and loadout units to be accounted for and described.
- 8) Indicate the current percentage of grain that is received via the methods listed as well as the anticipated percentage of grain that is expected to be received via each method after the permitting action is complete. If the facility will receive grain via a method other than by truck or rail, indicate the method after "Other" and enter the appropriate percentages.

**INSTRUCTIONS (continued):**

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**Receiving and Shipping Information (continued)**

- 9) Indicate the current percentage of grain that is shipped via the methods listed as well as the anticipated percentage of grain that is expected to be shipped via each method after the permitting action is complete. If the facility will receive or ship via a method other than by truck or rail, indicate the method after "Other" and enter the appropriate percentages.

**10) Permanent Storage Information**

List the permanent storage capacity at the facility. For each storage unit, provide the Emission Unit ID, a description of the storage unit (i.e., corn bin #1, soybean silo #4, etc.), the maximum storage capacity in bushels (bu), and the height and diameter of the unit. If the unit is new and will be constructed as a result of the current permitting action, select the box in the "New Unit" column. If more than six (6) permanent storage units currently exist or will exist after the permitting action, then multiple Section 5.1 page 2 forms should be completed for the facility in order for all permanent storage units to be accounted for and described. If open storage piles are/will be used for storage, complete Section 6.11 for each storage pile.

**11) Grain Scalping and Hammermilling Operations**

If this facility does not or will not have scalping and hammermilling operations, select the N/A box located in the section title.

For each scalper and hammermill that is currently or will be located at the facility, indicate the Emission Unit ID, the name of the unit, the type of unit (i.e., scalper or hammermill), whether there is a surge bin associated with the unit, and the size of the surge bin (bushel) if there is one. If the unit is new and will be constructed as a result of the current permitting action, select the box in the "New Unit" column. If more than four (4) scalpers and hammermills currently exist or will exist after the permitting action, then multiple Section 5.1 page 2 forms should be completed for the facility in order for all scalpers and hammermills to be accounted for and described. Attach the manufacturer information for each emission unit as part of the application (**Step 17 Manufacturer Specifications**).

**Grain Drying Operations**

If grain drying operations do not or will not occur at your facility, select the N/A box located in the section title.

- 12) If grain drying operations do or will occur at your facility, enter the number of grain dryers that currently exist at the facility and the number that will exist after the permitting action is complete.
- 13) For each dryer (existing and proposed), enter the emission unit ID, the unit's name, and the maximum drying capacity of the dryer in units of tons/hour. Select the appropriate descriptions that apply to each dryer. If more than three (3) grain dryers currently or will exist, then multiple Section 5.1 page 2 forms should be completed for the facility in order for all grain dryers to be accounted for and described. If the unit is new and will be constructed as a result of the current permitting action, select the box in the "New Unit" column. Attach the manufacturer information for each emission unit as part of the application (**Step 17 Manufacturer Specifications**).

**INSTRUCTIONS (continued):**

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**14) Grain Processing Operations**

If grain processing operations do not or will not occur at your facility, select the N/A box located in the section title.

Indicate the maximum amount of grain that is currently processed via the methods listed as well as the maximum amount of grain that will be processed via the methods listed after the permitting action is complete. If this application is for an operating permit or operating permit renewal, you need not indicate the anticipated totals as it is expected the anticipated levels will be the same as the current values. Indicate the average amount of grain that has been processed via the methods listed in the past five years. If the facility will process grain via a method other than those listed, indicate the method after "Other" and enter the appropriate amounts. If this is a new facility, the average amount of grain should be the amount of grain that has been processed via the methods listed in the past year.

**15) New Source Performance Standard (NSPS) Applicability**

This grain handling facility may be subject to an NSPS subpart. If you know the subpart the facility is subject to, select the subpart. Contact the Department for additional information

**16) Potential to Emit (PTE) Calculations**

**PTE calculations must be submitted with this application.** If there are questions on calculating the potential emissions associated with grain handling activities, contact the Department. The Department may be able to send you electronic spreadsheets for ease in calculating the potential emissions. Be sure the potential emission calculations are attached and select the box to indicate it has been done.

**17) Manufacturer Specifications**

Attach the manufacturer's information for each emission unit listed under **11) Grain Scalping and Hammermilling Operations** and for the grain dryer(s) listed under **12) Grain Drying Operations**. Select the box to indicate it has been done.

**18) Additional Information**

Please include any additional information associated with the grain handling facility you feel should be submitted with this application. Only select the "YES" box if information is being included that is not required elsewhere in the application.

**19) Actual Grain Handling Production Rates**

Indicate the actual amount of grain received at this facility for the past five years. Be sure to specify the units used. Select the box to indicate it has been done.

**INSTRUCTIONS (continued):**

**Section 5.1: Grain Handling Facility Information**

**20) Actual Emission Calculations**

**If you are applying for an operating permit (initial or renewal), submittal of actual emission calculations with this permit application is required.** If there are questions about calculating the actual emissions associated with grain handling activities, contact the Department. The Department may be able to send you electronic spreadsheets for ease in calculating the actual emissions. Select the box to indicate it has been done.

**21) Additional Information**

Please include any additional information associated with the grain handling facility you feel should be submitted with this application. Only select the “YES” box if information is being included that is not required elsewhere in the application.