

**INSTRUCTIONS:**

**Section 5.4: Concrete Batch Plant Facility Information**

**IMPORTANT:** Do NOT use pencil to fill out the application. Please type your 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 this box blank. If this is an existing facility, contact the Department if this number is unknown.

**General Information**

- 1) Indicate the type of concrete batch plant by selecting the appropriate box.
- 2) Enter the maximum amount of concrete that can be produced per hour and per year. Be sure to select the appropriate units.
- 3) Attachment of manufacturers specifications are required for: each emission unit listed in steps #7 generator and #9 water heater.

**4) Operating Schedule**

Indicate whether the operating schedule provided is the anticipated operating schedule (for new sources) or actual operating schedule (for existing sources). Provide the operating schedule for the facility in terms of hours/day, days/week, and weeks/year.

**5) Concrete Composition Information**

Indicate the percentages of each component of concrete that is used to make the concrete at this facility. Department default values are aggregate: 46.5%; sand: 35.5%; cement: 12.0%; cement supplement: 2.0%; and water: 4.0% from EPA's Compilation of Air Pollutant Emission Factors, 5th Edition, Volume 1 (AP-42), Chapter 11.12: Concrete Batching.

**6) Permanent Storage Information**

List the permanent storage capacity at the facility. For each storage unit, indicate the Unit ID, when the unit was installed, type of unit (i.e., bin, silo, etc.), the maximum storage capacity of the unit in tons, and the type of material stored. If more than four (4) permanent storage units currently exist, then additional information should be provided in order for all permanent storage units to be described in the application. If open storage piles are/will be used for storage, complete Section 6.11 for each storage pile.

**INSTRUCTIONS (continued):**

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**Combustion Equipment**

Attach the manufacturers specifications for each emission unit (e.g., generator, water heater) as part of the application (**Step 14 Manufacturer's Specifications**).

- 7) Indicate if an emergency generator is located on site.
- 8) If an emergency generator exists, indicate its maximum rated capacity and select the appropriate units. Also indicate the type(s) of fuel utilized in the emergency generator.
- 9) Indicate if a water heater is located on site.
- 10) If a water heater exists, indicate its maximum rated capacity and select the appropriate units. Also indicate the type(s) of fuel utilized in the water heater.

Be sure to complete the applicable emission point forms (6.1 and/or 6.2) for each generator and/or water heater located onsite.

**11) Concrete Production Operations**

For each operation listing, indicate the type of control device (add-on or inherent to the system) that is utilized on that operation. If no controls are utilized for a particular operation, select the "None" box. The selections made in this section will determine if controlled emission factors should be utilized when calculating the facility's emissions. Attach any applicable manufacturers specifications for each control device listed in step #11.

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

The concrete operations at this Concrete Batch Plant may be subject to an NSPS subpart. Select the subpart this facility is subject to. If you do not know whether or not the facility is subject to a specific NSPS contact the Department for additional information.

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

**Submittal of PTE calculations with this permit application is required.** If there are questions on calculating the potential emissions associated with concrete batch operations, contact the Department. The Department may be able to send you electronic spreadsheets for ease in calculating the potential emissions. Be sure that the potential emission calculations are attached and select the box to indicate it has been done.

**14) Manufacturer's Specifications**

Attach the manufacturer's specifications for each emission unit in **#7 generator and #9 water heater**. Select the box to indicate it has been done.

**15) Additional Information**

Please include any additional information associated with the concrete batch 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.

**INSTRUCTIONS (continued):**

**Section 5.4: Concrete Batch Plant Facility Information**

**16) Actual Concrete Production Rates**

Enter the amount of concrete produced at the facility for the past five years. Be sure to input the appropriate units (either tons or yards). This information only needs to be completed and submitted to the Department if you are applying for an operating permit or operating permit renewal.

**17) Current Operating Limitations**

If there are currently no operating limitations on this source, select the “N/A” box located in the section title.

If there are currently operating limitations on this source or on individual emission units at this source, list the limitations that either must be incorporated into the operating permit (i.e., they exist in a construction permit) or currently exist in your operating permit that you would like them to remain in your new operating permit. Some examples of limitations could be hourly restrictions on combustion equipment or annual concrete production.

**18) Actual Emission Calculations**

**If you are applying for an operating permit (initial or renewal), the submittal of actual emissions calculations with this permit application is required.** If there are questions on calculating the actual emissions associated with concrete batch operations, contact the Department. The Department may be able to send you electronic spreadsheets for ease in calculating the actual emissions. Be sure the actual emissions calculations are attached and select the box to indicate it has been done.

**19) Additional Information**

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