

**Emission Summary Form Index (Information required by forms 4530-126 through 4530-129)**

AM-585

**Air Pollution Control Operation Permit Renewal Application**

August 2020

*Completion of this index is required for an air pollution control operation permit renewal application filed pursuant to ss. 285.62 and 285.66, Wis. Stats. to document how the information required by Forms 4530-126 through 4530-129 is included in the application. Form 4530-126 and Form 4530-128 are required for each emissions unit that is not an insignificant emissions unit as determined in ss. NR 407.05(4)(c)9. and 10, Wis. Adm. Code. Forms 4530-127 and 4530-129 are required for the facility. The department accepts emissions summarized in table format in lieu of using the forms, provided all necessary information is included for **each** emissions unit and the facility. Regardless of whether the forms or an emission table is used, supporting calculations, emissions factors references and/or other information used in the calculations (e.g. SDS, formulation data) are also required. All emissions units must be accounted for in this index. Note: Any personally identifiable information (facility names and addresses, RCO names, etc.) collected will be used for administrative purposes only and may be provided to requesters to the extent required by Wisconsin's Open Records Law [ss. 19.31-19.39, Wis. Stats.].*

Facility name:

Facility identification number:

**FACILITY HAZARDOUS AIR POLLUTANT SUMMARY (Form 4530-127)**

**If the facility emits any HAPs regulated by sec. 112 of the CAA or ch. NR 445, Wis. Adm. Code,** identify how facility-wide MTE and PTE are included in the application by checking one of the following:

Form 4530-127 completed and attached; OR

Emission table of HAPs regulated by sec. 112 of CAA or ch. NR 445, Wis. Adm. Code, attached

**Include:**

Supporting calculations, emission factor references, and other information relied on in the calculations; AND

Description of all applicable restrictions that limit facility-wide PTE.

**Facility does not emit any HAPs regulated by sec. 112 of the CAA or ch. NR 445, Wis. Adm. Code.**

**FACILITY CRITERIA POLLUTANT EMISSION SUMMARY (Form 4530-129)**

**If the facility emits any regulated criteria air pollutants,** identify how facility-wide MTE and PTE are included in the application by checking one of the following:

Form 4530-129 completed and attached; OR

Emission table of regulated criteria air pollutants attached

**Include:**

Supporting calculations, emission factor references, and other information relied on in the calculations; AND

Description of all applicable restrictions that limit facility-wide PTE.

**Facility does not emit any regulated criteria air pollutants.**

Total  
Facility  
Emissions

Unit-Specific Emissions	<b>EMISSION UNIT HAZARDOUS AIR POLLUTANT SUMMARY (Form 4530-126)</b>	
	Identify how HAPs regulated by section 112 of CAA or ch. NR 445, Wis. Adm. Code MTE and PTE are included in the application for EACH emissions unit, by listing each emissions unit in the appropriate space below. <b><i>All emissions units at the facility must be identified.</i></b>	
	Form 4530-126 completed and attached for each of the following emissions units (list):	Sample calculations, emission factor references, and information used to calculate emissions (e.g. SDSs) are attached for <i>each</i> of the listed emissions unit(s).
	Emission table(s) of HAP regulated by sec. 112 of CAA or ch. NR 445, Wis. Adm. Code, attached for each of the following emissions units (list):	Sample calculations, emission factor references, and information used to calculate emissions (e.g. SDSs) are attached for <i>each</i> of the listed emissions unit(s).
	The following emissions unit(s) do not emit any HAP regulated by sec. 112 of the CAA or ch. NR 445, Wis. Adm. Code (list):	
	<b>EMISSION UNIT CRITERIA POLLUTANT EMISSION SUMMARY (Form 4530-128)</b>	
	Identify how regulated criteria pollutant MTE and PTE are included in the application for EACH emissions unit, by listing each emissions unit in the appropriate space below. <b><i>All emissions units at the facility must be identified.</i></b>	
	Form 4530-128 is completed and attached for each of the following emissions units (list):	Sample calculations, emission factor references, and information used to calculate emissions (e.g. SDSs) are attached for <i>each</i> of the listed emissions unit(s).
	Emission table(s) of regulated criteria air pollutants attached for each of the following emissions units (list):	Sample calculations, emission factor references, and information used to calculate emissions (e.g. SDSs) are attached for <i>each</i> of the listed emissions unit(s).
	The following emissions unit(s) do not emit any regulated criteria air pollutants (list):	

# Emission Summary Form Index Instructions (Information required by forms 4530-126 through 4530-129)

## Air Pollution Control Operation Permit Renewal Application -- INSTRUCTIONS

AM-585

August 2020

### Section 1: Facility information

Provide the facility name and facility identification (FID) number that appears on the annual emission inventory reports.

#### Required information:

Section NR 407.05(4), Wis. Adm. Code, requires operation permit renewal applications to contain all information required for issuance of an operation including emissions-related information. The following AIR POLLUTION CONTROL PERMIT APPLICATION Forms identify the required information:

- Form 4530-126 EMISSION UNIT HAZARDOUS AIR POLLUTANT SUMMARY
- Form 4530-127 FACILITY HAZARDOUS AIR POLLUTANT SUMMARY
- Form 4530-128 EMISSION UNIT SUMMARY
- Form 4530-129 FACILITY EMISSIONS SUMMARY

Form 4530-126 and Form 4530-128 are required for *each* emissions unit that is not an insignificant emissions unit as described in ss. NR 407.05(4)(c)9. and 10., Wis. Adm. Code. Forms 4530-127 and 4530-129 are required for the facility. The department accepts emissions summarized in table format in lieu of using the forms, provided all required information is included for **each** emissions unit and the facility. See the item-by-item instructions on the back of each form for additional information about the required information.

### Section 2: Total Facility Emissions

Use the *Total Facility Emissions* rows to indicate how information from Forms 4530-127 and 4530-129 is included in the renewal application. One box must be checked for each form identifying whether:

1. the appropriate form is included in the application;
2. an emission table is attached in lieu of the form; or
3. the source does not emit the pollutants.

If the pollutants are emitted, additional information must be submitted with the application. Check the appropriate boxes to indicate that the required information is attached.

#### Total Facility Emissions:

For MTE for each pollutant emitted from the facility, sum the annual emission rates reported for each of the facility's emission units on Forms 4530-126 and 4530-128 (or the equivalent emission tables). The facility total PTE for each pollutant should take into consideration production or operational limits. Some current permits contain conditions that limit facility total PTE for a pollutant(s), or a source elects production or operational limits that restrict facility total PTE. In these cases, summing the PTE from each emission unit does not provide the facility-wide PTE. When this is the case include the following in the renewal application:

- A description of the restrictions that limit the facility total PTE, identifying their origin (e.g. condition I.ZZZ.1.a.(1) of construction permit 12-ABC-123, permittee electing limit be included in permit).
- Calculations showing how the facility total PTE is calculated for each pollutant, as appropriate.

Note: Facility total PTE is used to determine whether a facility is a major source under Part 70, Prevention of Significant Deterioration (PSD), and Nonattainment Area New Source Review.

### Section 3: Unit specific emissions

Use the *Unit-Specific Emissions* rows to indicate how the information for Forms 4530-126 and 4530-128 are included in the renewal application for **each** emissions unit that is not an insignificant emissions unit as described in ss. NR 407.05(4)(c)9. and 10., Wis. Adm. Code. Every emissions unit at the facility must be listed in one of the three boxes identifying whether:

1. the appropriate form is included in the application for the emissions unit;
2. an emission table is attached for the emissions unit in lieu of the form; or
3. the emissions unit does not emit the pollutants.

If the pollutants are emitted, additional information must be submitted with the application. Check the appropriate box to indicate that the required information is attached.

Note: If providing emission tables, include equivalent form number (e.g. Form 4530-128) and the unit identification number in the table heading, where appropriate.

Provide the MTE and PTE emission rates in pounds per hour (lbs/hr) and tons per year (tpy) for each regulated pollutant emitted by the source. Whether using the form or an emission table, attach the calculations, source of emissions factors or other information used in the calculation (e.g. Safety Data Sheet, formulation data).

#### **Emissions:**

*Maximum theoretical emissions (MTE)* are the quantity of air contaminants that theoretically could be emitted by a stationary source without control devices based on the design capacity or maximum production capacity of the source. When determining annual maximum theoretical emissions, a source shall be presumed to operate 8,760 hours per year unless its physical design prevents it. Where a source's physical design restricts the number of hours it may operate, annual maximum theoretical emissions shall be calculated taking this restriction into account. In determining the maximum theoretical emissions of VOCs, the design capacity or maximum production capacity shall include the use of raw materials, coatings and inks with the highest VOC content used in practice by the source. In determining the maximum theoretical emissions of a hazardous air contaminant, the design capacity or maximum production capacity shall include the use of raw materials, coatings, inks and fuels with the highest hazardous air contaminant content used in practice by the source. Realistic operating conditions shall be taken into account in determining emissions under this subsection. [s. NR 400.02(95), Wis. Adm. Code]

*Potential to emit (PTE)* is the maximum capacity of a stationary source to emit any air contaminant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air contaminant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored or processed, shall be treated as part of its design if the limitation is enforceable by the administrator. [s. NR 400.02(127), Wis. Adm. Code]

#### **For more information:**

- [Instruction Booklet \(AM-300\) \[PDF\]](#) - examples of MTE and PTE calculations
- [“Insignificant Emissions Units” aka Emissions Units, Operations and Activities Exempt from Inclusion in Operation Permit Applications \(AM-20-0085\) \[PDF\]](#) - guidance on determining whether emissions units are insignificant.

#### **Reminders:**

1. Include calculations showing how the MTE and PTE were calculated for each pollutant, for each emissions unit.
2. Provide reference(s) for the calculations identifying the sources of the information and emission factors used to calculate emissions. Emission factors may be compiled in published documents, such as the U.S. Environmental Protection Agency's AP-42, or may be based on stack test results. Providing numbered references is appropriate and may be attached as a separate page.
3. Describe restrictions that limit facility PTE and calculations showing how the facility total PTE is calculated for each pollutant.
4. Use additional copies of this index for more space to provide information for all emission units at the facility.
  - Refer to the Preamble of the facility's Operation Permit for a list of the existing emissions units covered by the current operation permit.
  - Refer to any construction permits or construction permit exemption determinations to identify additional units that may not be included in the current operation permit.
  - Include units installed and not previously included in a permit.