



**Minnesota Pollution
Control Agency**

520 Lafayette Road North
St. Paul, MN 55155-4194

GI-05B-R

Facility Description: Emission Unit (EU)
Supplemental Information for Title V Reissuance
Air Quality Permit Program

Doc Type: Permit Application

Instructions on Page 3

1a) AQ Facility ID No.: _____ **1b)** AQ File No.: _____

2) Facility Name: _____

To complete the rest of this form, you will need the colored sheet(s) labeled *Facility Description: Emission Unit (EU)*.

- 3)** Review the information on the colored sheet(s) labeled "Facility Description: Emission Unit (EU)." Is the information on the form complete and accurate (i.e., is everything listed still in use, and is every piece of equipment in use listed)? If there are blank fields (e.g., missing manufacturers or model numbers, missing dates, etc.) for any listed emission unit, answer "no" to this question and fill in the missing information as directed in Question 4.

- ☐ Yes – The "Facility Description: Emission Unit (EU)" form is complete and accurate. No changes are necessary. Done with this form. Return this page with your application.
- ☐ No – Go to Question 4.

- 4)** Are there changes to be made that are administrative in nature (e.g., filling in missing information [blank fields] for existing equipment, typographical errors, incorrect model numbers, other errors)? **[Notes:** This includes filling in all missing information, including dates and capacities; see the attached instructions for including the material and units for the maximum design capacity. This item **does not include** replacing listed equipment with new equipment. This **may include** checking the "insignificant activity" box if the equipment or operation has always been an insignificant activity and was erroneously included as an emission unit.]

- ☐ Yes – Using a red pen, make changes and fill in all missing information on the colored sheets. Go to Question 5.
- ☐ No – Go to Question 5.

- 5)** Is there equipment listed that has been permanently disabled or removed from the facility?

- ☐ Yes – Using a red pen, draw a line on the colored sheet through the equipment that is no longer in use. Indicate the date that it was removed or disabled. Go to Question 6.
- ☐ No – Go to Question 6.

- 6)** Are there equipment or processes in use that are not listed (either additional equipment, or equipment that replaced something you crossed out for Question 5)?

- ☐ Yes – Complete one line of the table on the next page for each piece of equipment or process that is not currently listed on the colored sheet. Return this form (pages 1 and 2) and the colored sheet(s) labeled "Facility Description: Emission Unit (EU)" with your application.
- ☐ No – Done with this form. Return this page and the colored sheet(s) labeled "Facility Description: Emission Unit (EU)" with your application.

a) Emis Unit ID No.	b) SV ID No(s).	c) Relation Type	d) Control Equip ID No.	e) Emission Unit Operator's Description	f) Manufacturer	g) Model No.

a)	h)	i)			j)	k)	l)	m)	n)	o)	p)
Emis Unit ID No.	Maximum Design Capacity	Maximum Material	Design Units – numer- ator	Capacity Units – denomin- ator	Maximum Fuel Input (MMBTU)	Commence Construction Date (MM/DD/YY)	Initial Startup Date (MM/DD/YY)	Firing Method (coal-burning units only)	% Fuel for Space Heat (boilers only)	Bottleneck? F = facility G = group	SIC Code

Instructions for Adding Equipment/Processes to the List

- a) **Emission Unit ID No.** -- Assign an Emission Unit ID number to each additional process or piece of equipment (separate forms are provided for tanks and fugitive emission sources, so don't include them here). Number the equipment/processes at your facility sequentially beginning with the next number after the last one currently listed (e.g. if the last item on the list is 004, begin with 005). Even if the equipment replaces previous equipment that has been removed, assign the next number; do not reuse numbers. This ID number is unique to this piece of equipment and must be used consistently throughout the application.
- b) **SV ID No(s).** -- Provide the ID numbers of the stacks and vents associated with each emission unit. These must be the same ID numbers as on "Facility Description: Stack Vents (SV)." It is important to use these ID numbers consistently throughout the application.
- c) **Relation Type** -- Identify the type of stack or vent as follows:
 - M Main, meaning this is the primary stack or vent through which emissions are vented in normal operation;
 - P Parallel, meaning this is another stack or vent through which emissions are vented in normal operation. For operations where emissions normally pass through two or more stacks or vents, the first stack/vent would be the main one and any others would be parallel;
 - B Bypass, meaning the stack or vent serves as a bypass to the usual stack or vent in some circumstances; and
 - O Other for all other situations. Attach a written description.
- d) **Control Equipment ID No.** -- Provide the ID number of each air pollution control device associated with each emission unit. This ID number must be the same as provided on "Facility Description: Control Equipment (CE)."
- e) **Emission Unit Operator's Description** -- Provide a description sufficient to identify this emission unit at the facility, for example, "North Boiler", "Heatset Web Press." You may also include any identifying numbers that you use for the equipment.
- f) **Manufacturer** -- For packaged and pre-assembled equipment, and for equipment completely designed by a single company and field-assembled, provide the name of the manufacturer or designer. For equipment designed and manufactured by the contractor or owner, indicate this.
- g) **Model No.** -- For equipment which has a model number, provide the model number.
- h) **Maximum Design Capacity** -- Provide the maximum production capacity of each emission unit; for example, for a boiler, the maximum steam generation rate; for a crusher, the maximum crushing rate; for a paint spray booth, the maximum spraying rate.
- i) **Maximum Design Capacity Units** -- Provide the material and units of measure for the number provided for capacity, such as "pounds of steam per hour" or "tons crushed per hour." Enter the material ("steam", "energy", etc), numerator and denominator in the separate columns provided.

For the material, choose from the following list:

Table Entry	Detail
A/D Pulp	Air Dried Pulp
Ash	Ash
Bentonite	Bentonite
Board	Board
Carbon	Carbon
Chlor Dioxid	Chlorine Dioxide
Coating	Coating
Corn	Corn
Diesel Fuel	Diesel Fuel
Ethanol	Ethanol
Fuel	Fuel
Heat	Heat
Ink	Ink
Lime	Lime
Material	Material
Natural Gas	Natural Gas
Paint	Paint
Pellet	Pellet

Table Entry	Detail
Acid	Acid
Asphalt	Asphalt
Blk Liq Slds	Black Liquor Solids (Kraft Pulp Mill)
Can	Can
Casting	Casting
Clothes	Clothes
Coke	Coke
D Pulp, Unble	Dry Pulp, Unbleached
Elect Energy	Electrical Energy
Fiber	Fiber
Glue	Glue
Hydrated Lime	Hydrated Lime
Lead	Lead
Limestone	Limestone
Metal	Metal
Ore	Ore
Paper	Paper
Product	Product

Table Entry	Detail
Pulp	Pulp
Resin	Resin
Sand	Sand
Scrap	Scrap
Sludge	Sludge
Steam	Steam
Sulfur	Sulfur
Vehicle	Vehicle
Wafer/Chip	Wafer/Chip
Wastewater	Waste Water
Yeast	Yeast
Energy	Energy
Bottle	Bottle
Wood	Wood
Shingles	Shingles
Coal	Coal
Waste, Solid	Solid Waste
Grain	Grain
Adhesive	Adhesive
Wood, Dried	Oven Dried Wood
Methane	Methane
Core Oil	Core Oil
Solid	Solid
Foam	Foam
Beer	Beer

Table Entry	Detail
RDF	Refuse Derived Fuel
Rock	Rock
Sawdust	Sawdust
Shot	Shot Material
Solvents	Solvents
Sugar	Sugar
Varnish	Varnish
Voc	Volatile Organic Compound
Waste	Waste
Water	Water
Current	Current Applied
Surface Area	Surface Area
Core	Core
Meal, Blood	Blood Meal
Battery	Battery
Fiberglass	Fiberglass
Ethylene Oxi	Ethylene Oxide
Meal, Dry Bld	Dried Blood Meal
Bread	Bread
Sludge, Dry	Dry Sludge
Emery	Emery
Aluminum	Aluminum
DDGS	Distillers Dried Grains With Solids
Log	Log
Silicon Diox	Silicon Dioxide

For the numerator, choose from the following list:

Table Entry	Detail
Amp	Amperes
Bhp	Brake horsepower
Btu	British Thermal Unit
E3 Gal	1000 gallons
E6 Mg	Million megagrams
F	Degrees Farenheit
Ft	Feet
Ft3	Cubic feet
Gal	Gallons
Hp	Horsepower
Kw	Kilowatts
Mbtu	1000 British thermal units
Megagram	Megagrams
E6 Bdft	Million board feet
Mw	Megawatts
Ton	English tonn (2000 U.S. Lb)
Yd2	Square yards
Avg CFM	Avg Std cubic feet per minute
Batch	Batch
M3	Cubic meters
Hr	Hours

Table Entry	Detail
Bbl	Barrels
BRDFT	Board Foot
Bushel	Bushels
E6 Lb	Million pounds
Each	Each
Floz	Fluid ounces
Ft2	Square feet
Ft3(s)	Standard cubic feet
Gr	Grains
Kg	Kilograms
Lb	Pounds
Mcfd	1000 cubic feet per day
Mgal	Million gallons
Mmbtu	Million British thermal units
Oz	Ounces
Yd	Yards
Yd3	Cubic Yards
Acre	Acres
Cord	Cord
Cycle	Cycle
Hp-Hr	Horsepower-hours

Table Entry	Detail
In	Inches
Mcf	Thousand cubic feet
Lb	Pounds
Tonne	Metric tons
E6 Lb	Million pounds
RPM	Revolutions per minute
E3 Lb	1000 pounds

Table Entry	Detail
Kw-Hr	Kilowatt-hours
Mmcf	Million cubic feet
Cc	Cubic centimeters
Mile	Miles
E6 Ft2	Million square feet
KPA	Kilopascals
M	Meters

For the denominator, choose from the following list:

Table Entry	Detail
Min	Minutes
Day	Days
Mo	Month
Each	Each
Ft2	Square feet
Ft2-Hr	Square foot hours
Ton	English tons (2000 U. S. lbs)
Batch	Batch

Table Entry	Detail
Hr	Hours
Wk	Week
Yr	Years
Gal	Gallons
Ft3	Cubic Feet
M2-Hr	Square meter hours
Lb	Pounds
Cycle	Cycle

- j) **Maximum Fuel Input** -- For fuel-burning emission units only, provide the maximum fuel use in millions of BTU per hour.
- k) **Commence Construction Date** -- Provide the date on which installation of the unit started at the source. If unknown, provide your best estimate of the year construction commenced.
- l) **Initial Startup Date** -- Provide the date on which operation of the emission unit started.
- m) **Firing Method** -- For coal-burning units only, indicate the firing method using one of the following codes. Enter the description as well as the number.
1. Pulverized coal -- wet bottom
 2. Pulverized coal -- dry bottom
 3. Pulverized coal -- dry bottom (tangential firing)
 4. Cyclone furnace
 5. Spreader stoker
 6. Overfeed stoker (traveling grate)
 7. Underfeed stoker
 8. Wet slurry
 9. Atmospheric fluidized bed combustion
- n) **Percentage Fuel for Space Heat** -- If fuel is burned in an emission unit both for process heat and for cold-weather space heating, provide an estimate of the percentage of fuel used for space heat annually.
- o) **Bottleneck** -- If this emission unit acts as a bottleneck which restricts operation of other units to less than their design capacity, indicate that in this column by entering an "F" if the effect is to limit the capacity of the entire facility, or "G" if the effect is to limit the capacity of a group of emission units within the facility. Otherwise, leave blank.
- p) **SIC Code** -- Provide the SIC code for this emission unit if different from the primary SIC code for the stationary source. Otherwise leave blank. Note that most emission units will not have a SIC code for that type of unit alone.

As an example, a steam generating plant that provides process steam can be assigned its own SIC code even though it is part of a larger stationary source.