



**Minnesota Pollution
Control Agency**

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

IA-01-R
Insignificant Activities - Supplemental Information
for Title V Reissuance
Air Quality Permit Program

Doc Type: Permit Application

Instructions on Page 2

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

2) Facility Name: _____

3) Review the Insignificant Activities listed in Tables IA-01.1 and IA-01.2. Does this facility including any of the Insignificant activities shown in Table IA-01.2?

☐ Yes – Complete Questions 4a and 4b.

☐ No – Done with this form.

4) Description of Activities: _____

4a)	Rule Citation	4b) Description of activities at the facility
<input type="checkbox"/>	7007.1300, subp. 3(A)	
<input type="checkbox"/>	7007.1300, subp. 3(B)(1)	
<input type="checkbox"/>	7007.1300, subp. 3(B)(2)	
<input type="checkbox"/>	7007.1300, subp. 3(C)	
<input type="checkbox"/>	7007.1300, subp. 3(D)	
<input type="checkbox"/>	7007.1300, subp. 3(E)(2)	
<input type="checkbox"/>	7007.1300, subp. 3(F)	
<input type="checkbox"/>	7007.1300, subp. 3(G)	
<input type="checkbox"/>	7007.1300, subp. 3(H)(1)	
<input type="checkbox"/>	7007.1300, subp. 3(H)(2)	
<input type="checkbox"/>	7007.1300, subp. 3(H)(3)	
<input type="checkbox"/>	7007.1300, subp. 3(H)(4)	
<input type="checkbox"/>	7007.1300, subp. 3(H)(5)	

4a)	Rule Citation	4b) Description of activities at the facility
<input type="checkbox"/>	7007.1300, subp. 3(H)(6)	
<input type="checkbox"/>	7007.1300, subp. 3(H)(7)	
<input type="checkbox"/>	7007.1300, subp. 3(I)	
<input type="checkbox"/>	7007.1300, subp. 3(J)	
<input type="checkbox"/>	7007.1300, subp. 3(K)	
<input type="checkbox"/>	7007.1300, subp. 4	
<input type="checkbox"/>	7008.4100	
<input type="checkbox"/>	7008.4110	

Instructions for Form IA-01-R

- 1a) AQ Facility ID No.** -- Fill in your Air Quality (AQ) Facility identification (ID) Number (No.). This is the first eight digits of the permit number for all new permits issued under the operating permit program.
- 1b) AQ File No.** -- Fill in your AQ File Number. This number can be found in the "cc" line of correspondence received from the Minnesota Pollution Control Agency (MPCA).
- 2) Facility Name** -- Enter your facility name.
- 3) Does the facility include insignificant activities?** Two tables of insignificant activities are provided below.
- Table IA-01.1, Insignificant Activities Not Required to be Listed**, specifies those activities that **do not** need to be included in your permit application.
 - Table IA-01.2, Insignificant Activities Required to be Listed**, specifies those activities that must be included in your application, on this form.
 - If your facility has a Plantwide Applicability Limit (PAL), or you are applying for a PAL, all activities from Table IA-01.2 that emit the PAL pollutant no longer qualify as Insignificant Activities and must be included in your permit application as emitting equipment using the appropriate forms (e.g., GI-04-R, GI-05B-R, GI-05C-R, GI-07-R, CD-01-R, etc.).
 - Any activity that requires a permit condition under 40 CFR § 52.21 no longer qualifies as Insignificant Activity and must be included in your permit application on the appropriate forms (e.g., GI-04-R, GI-05B-R, GI-05C-R, GI-07-R, CD-01-R, etc.).
 - It is possible that activities listed on this form may be included in your permit with applicable requirements and associated periodic monitoring.
- 4) Description of Insignificant Activities**
- 4a)** Check the boxes as appropriate for activities at your stationary source that are listed in **Table IA-01.2**.
- 4b)** Provide a brief description of any activities at your stationary source. Fill out a separate row for each listed activity.
- Provide enough detail in your description so it is clear how the emission unit(s) at your source meet the definition of the insignificant activity. For example, insignificant activity subpart 3(E)(1) corresponds to gasoline storage tanks with a combined total tankage capacity of not more than 10,000 gallons. If you have gasoline storage tanks that meet this definition, indicate the total capacity of your tanks to show that it is under 10,000 gallons.
- If you run out of room on the table, make additional copies of the form.

Table IA-01.1 Insignificant activities not required to be listed

The activities described below are not required to be listed in your permit application under Minn. R. 7007.0500, subp. 2(C)(2).

- 2(A). Fuel use:
1. production of hot water for on-site personal use not related to any industrial process;
 2. fuel use related to food preparation by a restaurant or cafeteria; and
 3. fuel burning equipment with a capacity less than 19,000 British thermal unit (Btu) per hour, but only if the combined total capacity of all fuel burning equipment at the stationary source with a capacity less 19,00 Btu per hour is less than or equal to 420,000 Btu/hour.
- 2(B). Plant upkeep:
1. routine housekeeping or plant upkeep activities not associated with primary production processes at the stationary source, such as: painting buildings, retarring roofs, paving parking lots, but excluding use of spray paint equipment.
 2. routine maintenance of buildings, grounds, and equipment;
 3. use of vacuum cleaning systems and equipment for portable steam cleaning;
 4. clerical activities such as operating copy machines and document printers, except operation of such units on a commercial basis;
 5. janitorial activities; and
 6. sampling connections used exclusively to withdraw materials for laboratory analysis and testing.
- 2(C). Fabrication operations:
1. equipment used for the inspection of metal products;
 2. equipment used exclusively for forging, pressing, drawing, spinning, or extruding cold metals;
 3. equipment used exclusively to mill or grind coatings and molding compounds where all materials charged are in paste form; and
 4. mixers, blenders, roll mills, or calendars for rubber or plastics for which no materials in powder form are added and in which no organic solvents, diluents, or thinners are used.
- 2(D). Processing operations:
1. closed tumblers used for cleaning or deburring metal products without abrasive blasting;
 2. equipment for washing or drying fabricated glass or metal products, if no Volatile Organic Compounds (VOCs) are used in the process, and no gas, oil, or solid fuel is burned;
 3. equipment venting particulate matter (PM) or particulate matter less than 10 microns (PM₁₀) inside a building provided that emissions from the equipment:
 - (a) are vented inside of the building 100 percent of the time; and
 - (b) do not use air filtering systems used to control indoor air emissions; and
 4. blast cleaning operations using suspension of abrasive in water.
- 2(E). Storage tanks:
1. pressurized storage tanks for anhydrous ammonia, liquid petroleum gas (LPG), liquid natural gas (LNG), or natural gas;
 2. storage tanks holding lubricating oils;
 3. above and below ground fuel oil storage tanks with a combined total tankage capacity of less than 100,000 gallons; and
 4. gasoline storage tanks with a combined total tankage capacity of less than 2000 gallons.
- 2(F). Drain, waste, and vent piping:
1. stacks or vents to prevent escape of sewer gases through plumbing traps, not including stacks and vents associated with processing at wastewater treatment plants;
 2. sewer maintenance access covers and shafts;
 3. sludge and septage landspreading sites;
 4. sludge loadout pumping operations for publicly owned treatment works with a design flow less than 5,000,000 gallons per day; and
 5. odor control systems on components of publicly owned treatment works collection systems.
- 2(G). Residential activities: typical emissions from residential structures, not including the following:
1. fuel burning equipment with a total capacity of 420,000 Btu/hour or greater; and
 2. emergency backup generators.

- 2(H). Recreational activities: use of the following for recreational purposes:
1. fireplaces;
 2. barbecue pits and cookers; and
 3. kerosene fuel use.
- 2(I). Health care activities: activities and equipment directly associated with the diagnosis, care, and treatment of patients in medical or veterinary facilities or offices, not including support activities such as power plants, heating plants, emergency generators, incinerators, or other units affected by applicable requirements as defined in Minn. R. 7007.0100, subp. 7.
- 2(J). Miscellaneous:
1. safety devices, such as fire extinguishers, if associated with a permitted emission source, but not including sources of continuous emissions;
 2. flares to indicate danger to the public;
 3. vehicle exhaust emissions from the operation of mobile sources at a stationary source;
 4. purging of natural gas lines;
 5. natural draft hoods, natural draft ventilation, comfort air conditioning, or comfort ventilating systems not designed or used to remove air contaminants generated by, or released from specific units of equipment;
 6. funeral home embalming processes and associated ventilation systems; and
 7. use of consumer products, including hazardous substances as that term is defined in the Federal Hazardous Substances Act, where the product is used at academic and health care institutions in the same manner as normal consumer use.
- 2(K). Demonstration project conducted by a teaching institution, where the sole purpose of a demonstration project is to provide an actual functional example of a process unit operation to the students or other interested persons, where actual operating hours of each emissions unit must not exceed a total of 350 hours in a calendar year and where the emissions unit is not used to dispose of waste materials.

Table IA-01.2 Insignificant activities required to be listed:

The activities described below must be listed in your permit application. Under Minn. R. 7007.0500, subp. 2(C)(2), the Minnesota Pollution Control Agency (MCPA) **may** require you to submit calculations of emissions from these emission units and may choose to include them in your permit. You **must** calculate emissions from these emission units and include them in your permit application on the appropriate forms (e.g., GI-04-R, GI-05B-R, GI-05C-R, GI-07-R, CD-01-R, etc.) if any of the following are true:

- 1) the emissions units are subject to additional requirements under Section 114(a)(3) of the Clean Air Act;
 - 2) the emissions units are subject to Hazardous Air Pollutant requirements under Section 112 of the Clean Air Act;
 - 3) the emissions units are part of a Title I modification;
 - 4) if accounted for, the emissions units make the stationary source subject to a part 70 permit; or
 - 5) if they meet the criteria listed at the beginning of these instructions (e.g., PAL).
- 3(A). Fuel use: space heaters fueled by, kerosene, natural gas, or propane, but only if the combined capacity of all space heaters at the stationary source is less than or equal to 420,000 Btu/hour. A space heater is a heating unit that is not connected to piping or ducting to distribute the heat.
- 3(B). Furnaces, boilers, and incinerators:
1. infrared electric ovens; and
 2. fuel burning equipment with a capacity less than 420,000 Btu/hour but only if the total combined capacity of all fuel burning equipment at the stationary source with a capacity less than 420,000 Btu per hour is less than or equal to 1,400,000 Btu/hour.
- 3(C). Fabrication operations: equipment used exclusively for forging, pressing, drawing, spinning, or extruding hot metals.
- 3(D). Processing operations: open tumblers with a batch capacity of 1,000 pounds or less.
- 3(E). Storage tanks:
1. gasoline storage tanks with a combined total tankage capacity of not more than 10,000 gallons; and
 2. non-hazardous air pollutant VOC storage tanks with a combined total tankage capacity of not more than 10,000 gallons of non-hazardous air pollutant VOCs and with a vapor pressure of not more than 1.0 psia at 60 degrees Fahrenheit.
- 3(F). Cleaning operations: commercial laundries, not including dry cleaners and industrial launderers.

- 3(G). Emissions from a laboratory, as defined in this item. "Laboratory" means a place or activity devoted to experimental study or teaching in any science, or to the testing and analysis of drugs, chemicals, chemical compounds or other substances, or similar activities, provided that the activities described in this sentence are conducted on a laboratory scale. Activities are conducted on a laboratory scale if the containers used for reactions, transfers, and other handling of substances are designed to be easily and safely manipulated by one person. If a facility manufactures or produces products for profit in any quantity, it may not be considered to be a laboratory under this item. Support activities necessary to the operation of the laboratory are considered to be part of the laboratory. Support activities do not include the provision of power to the laboratory from sources that provide power to multiple projects or from sources which would otherwise require permitting, such as boilers that provide power to an entire facility.
- 3(H). Miscellaneous:
1. equipment used exclusively for packaging lubricants or grease;
 2. equipment used for hydraulic or hydrostatic testing;
 3. brazing, soldering or welding equipment;
 4. blueprint copiers and photographic processes;
 5. equipment used exclusively for melting or application of wax;
 6. nonasbestos equipment used exclusively for bonding lining to brake shoes; and
 7. cleaning operations: alkaline/phosphate cleaners and associated cleaners and associated burners.
- 3(I). Individual emissions units at a stationary source, each of which have a potential to emit the following pollutants in amounts less than:
1. 4,000 lbs/year of carbon monoxide;
 2. 2,000 lbs/year each of nitrogen oxide, sulfur dioxide, particulate matter, particulate matter less than ten microns, volatile organic compounds (including hazardous air pollutant-containing VOC), and ozone; and
 3. 1,000 tons/year of Carbon Dioxide Equivalent (CO₂e).
- 3(J). Fugitive Emissions from unpaved roads and parking lots.
- 3(K). Infrequent use of spray paint equipment for routine housekeeping or plant upkeep activities not associated with primary production processes at the stationary source, such as spray painting of buildings, machinery, vehicles, and other supporting equipment.

Table IA-01.3 Insignificant activities required to be listed for Part 70 sources

If you are applying for a part 70 permit, activities that are not listed in Table IA-01.1, but have potential emissions less than those in this table may be included as insignificant activities to be listed in your part 70 permit application. If you are applying for any type of state permit (including an individual state permit, a state general permit, or a state registration permit) or an amendment to any permit (state or Part 70), this table does not apply.

The MPCA may require you to submit calculations of emissions from these emission units and may choose to include them in your permit. You must calculate emissions of these activities in accordance with the criteria provided at the beginning of Table IA-01.2. These activities must be included in your permit application as emitting equipment using the appropriate forms (e.g., GI-04-R, GI-05B-R, GI-05C-R, GI-07-R, CD-01-R, etc.) if they meet any of those criteria.

4. Individual emissions units at a stationary source, each of which have potential emissions less than the following limits:
 - A. 5.7 lbs/hr of carbon monoxide;
 - B. 2.28 lbs/hr or actual emissions of one ton per year for nitrogen oxides, sulfur dioxide, particulate matter, particulate matter less than ten microns, and volatile organic compounds;
 - C. for hazardous air pollutants, emissions units with:
 1. potential emissions of 25 percent or less of the hazardous air pollutant thresholds listed in Minn. R 7007.1300, subp. 5; or
 2. combined HAP actual emissions of one ton per year unless the emissions unit emits one or more of the following HAPs: carbon tetrachloride; 1,2-dibromo-3-chloropropane; ethylene dibromide; hexachlorobenzene; polycyclic organic matter; antimony compounds; arsenic compounds, including inorganic arsine; cadmium compounds; chromium compounds; lead compounds; manganese compounds; mercury compounds; nickel compounds; selenium compounds; 2,3,7,8-tetrachlorodibenzo-p-dioxin; or dibenzofuran. If the emissions unit emits one or more of the HAPs listed in this subitem, the emissions unit is not an insignificant activity under this subitem; and
 - D. potential emissions up to 10,000 tons/year or actual emissions up to 1,000 tons/year of CO₂e.

Table IA-01.4 Conditionally insignificant activities

The activities described below must be listed in your permit application. The MPCA **may** require you to submit calculations of emissions from these emission units. You **must** calculate emissions from these emission units and include them in your permit application on the appropriate forms (e.g., GI-04-R, GI-05B-R, GI-05C-R, GI-07-R, CD-01-R, etc.) if any of the following are true:

- the emissions units are subject to additional requirements under Section 114(a)(3) of the Clean Air Act;
- the emissions units are subject to Hazardous Air Pollutant requirements under Section 112 of the Clean Air Act;
- the emissions units are part of a Title I modification;
- if accounted for, the emissions units make the stationary source subject to a part 70 permit; or
- if the emissions units meet the criteria listed at the beginning of these instructions (e.g., if they are included in a PAL).

7008.4100 Total VOC Usage at the stationary source less than 200 gallons or 2000 pounds in each calendar year. See Minn. R. 7008.4100 for recordkeeping and calculation requirements for this activity.

7008.4110 Emissions from equipment venting particulate matter (PM) or particulate matter less than 10 microns (PM₁₀) inside a building, provided that emissions from the equipment are:

- (A) filtered through an air cleaning system; and
- (B) vented inside of the building 100 percent of the time.