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| Minnesota Pollution Control Agency (MPCA), 520 Lafayette Road North, St. Paul, MN 55155-4194 | CR-05  Permitted Control Equipment Replacement Notification  Air Quality Permit Program  Doc Type: Excess Emission Report |

**Further instructions on Page 3.**

**Instructions:** Complete and sign form, then create a PDF copy and email to: [AQRoutineReport.PCA@state.mn.us](mailto:AQRoutineReport.PCA@state.mn.us).

For more information visit the [Air permit compliance forms webpage](https://www.pca.state.mn.us/business-with-us/air-permit-compliance-forms).

**General facility information**

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| --- | --- | --- | --- | --- | --- | --- |
| **1a)** AQ permit number: | |  | **1b)** Agency Interest ID number: | | |  |
| **2)** Facility name: |  | | | | | |
| **3)** AQ permit number: | |  | | **4)** County: |  | |

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| --- | --- | --- | --- | --- | --- | --- |
| **5a)** | **5b)** | **5c)** | **5d)** | **5e)** | **5f)** | **5g)** |
| **Existing control equipment  ID number** | **Replacement control equipment  ID number** | **Replacement control equipment  type code** | **Replacement control equipment**  **description** | **Replacement control equipment**  **manufacturer** | **Replacement control equipment**  **model number** | **Expected installation date (MM/DD/YYYY)** |
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Certification

*I will continue to comply with all applicable permit requirements, including the control efficiencies, for the replacement pollution control equipment that is installed to replace existing pollution control equipment.*

*I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.*

**Responsible Official**

|  |  |  |  |
| --- | --- | --- | --- |
| Print name: |  | Title: |  |
| Signature: |  | Date: |  |

**Note:** The individual signing must meet the definition of “responsible official” in Minn. R. 7007.0100, subp. 21.

# Instructions for Form CR-05

Use this form to notify the agency of replacement of permitted control equipment and to certify continual compliance with existing permit requirements for replacement control equipment. **The replacement control equipment must have all of the same monitored parameters as the existing control equipment.** These parameters include control efficiencies, pressure drop, water flow rate, catalyst, associated stacks and equipment, air flow rate, etc.

**This notice must be received by the agency seven working days prior to the replacement.**

**This form may only be used if your permit has requirements allowing for the replacement of control equipment with control equipment of the same type and with the same parameters**. If the installation or replacement requires an amendment or notification under Minn. R. 7007.1150-7007.1500, do not use this notification form.

Complete the table on this form for the replacement air pollution control devices at your facility.

**1a) AQ permit number --** Fill in your Air Quality (AQ) Facility Identification Number (ID) number. This is the first eight digits of the permit number for all permits issued under the operating permit program. If your facility has never been issued a permit under this program, leave this line blank.

**1b) Agency Interest ID number --** Fill in your Agency Interest ID number. This is an ID number assigned to your facility through the Tempo database. If you don’t know this number, leave this line blank.

**2) Facility name --** Enter your facility name.

**3) AQ permit number --** Enter your current AQ permit number.

**4) County --** Enter the county your facility is located in.

**5a) Existing control equipment ID number --** Fill in the control equipment ID number (TREAxxx) for the piece of existing pollution control equipment (e.g., fabric filter or afterburner) that will be replaced.

**5b) Replacement control equipment ID number –** Assign a control equipment ID number (TREAxxx) to each replacement control equipment. It is important not to reuse previously used TREA numbers. The replacement control equipment should be numbered consecutively beginning with the next number after the last one used at the facility. Numbers used for removed control equipment cannot be reused for replacement control equipment. This ID number is unique to this piece of equipment and must be used consistently. If a control device or emission source employs more than one control approach (e.g., Selective Catalytic Reduction [SCR] and catalytic oxidation), and you are replacing more than one, each replacement control approach should be identified with a unique control equipment ID number.

**5c) Replacement control equipment type code –** For the replacement control equipment that will replace the existing control equipment, fill in the appropriate control equipment type code from Table CR-05.1 at the end of these instructions. For control equipment that are not listed in Table CR-05.1, enter the control equipment type Code 099 for "other" and describe the equipment. **The type-code for the control equipment must be entered correctly, since this will be the primary means of recording and identifying the type of air pollution control equipment at this facility.**

**5d) Replacement control equipment description --** Fill in the appropriate control equipment description for the replacement equipment. This description ***must*** correspond with the control equipment type code in the second column (Item 5c). For control equipment assigned control equipment type code 099, please provide a detailed description of the control equipment; use additional pages if necessary.

**5e) Replacement control equipment manufacturer --** Fill in the name of the replacement pollution control equipment’s manufacturer.

**5f) Replacement control equipment model number --** Fill in the manufacturer's model number for the replacement pollution control equipment.

**5g) Expected installation date --** Provide the anticipated date the replacement control equipment will be installed, replacing the existing control equipment. If unknown, provide your best estimate. This notice must be received at least seven working days prior to the date listed.

##### Table CR-05.1

| **Code** | **Control device/Pollution control practice** |  | **Code** | **Control device/Pollution control practice** |
| --- | --- | --- | --- | --- |
| 001 | Wet scrubber, high eff. |  | 057 | Dynamic separator (wet) |
| 002 | Wet scrubber, med. Eff. |  | 058 | Mat or panel filter |
| 003 | Wet scrubber, low eff. |  | 059 | Metal fabric filter screen (cotton gins) |
| 004 | Gravity collector, high eff. |  | 060 | Process gas recovery |
| 005 | Gravity collector, med. eff. |  | 061 | Dust suppression by water spray, 10,000 gal/min |
| 006 | Gravity collector, low eff. |  | 062 | Dust suppression by chemical stabilizers or wetting agents, 350 gal/min |
| 007 | Centrifugal collector (cyclone), high eff. |  | 063 | Gravel bed filter |
| 008 | Centrifugal collector (cyclone), med. eff. |  | 064 | Annular ring filter |
| 009 | Centrifugal collector (cyclone), low eff. |  | 065 | Catalytic reduction |
| 010 | Electrostatic precipitator, high eff. |  | 066 | Molecular sieve |
| 011 | Electrostatic precipitator, med. eff. |  | 067 | Wet lime slurry scrubbing |
| 012 | Electrostatic precipitator, low eff. |  | 068 | Alkaline fly ash scrubbing |
| 013 | Gas scrubber (general) |  | 069 | Sodium carbonate scrubbing |
| 014 | Mist eliminator (v>250 ft/min), high vel. |  | 070 | Sodium-alkali scrubbing |
| 015 | Mist eliminator (v<250 ft/min), low vel. |  | 071 | Fluid bed dry scrubber |
| 016 | Fabric filter (T>250 °F), high temp. |  | 072 | Tube and shell condenser |
| 017 | Fabric filter (180 °F <T<250 °F), med. Temp. |  | 073 | Refrigerated condenser |
| 018 | Fabric filter (T<180 °F), low temp. |  | 074 | Barometric condenser |
| 019 | Catalytic afterburner, no heat exch. |  | 075 | Single cyclone |
| 020 | Catalytic afterburner, w/heat exch. |  | 076 | Multiple cyclone w/o fly ash reinjection |
| 021 | Direct flame afterburner, no heat exch. |  | 077 | Multiple cyclone w/fly ash reinjection |
| 022 | Direct flame afterburner, w/heat exch. |  | 080 | Chemical oxidation |
| 023 | Flaring |  | 081 | Chemical reduction |
| 024 | Modified furnace or burner design |  | 082 | Ozonation |
| 025 | Staged combustion |  | 083 | Chemical neutralization |
| 026 | Flue gas recirculation |  | 084 | Activated clay adsorption |
| 027 | Reduced combustion - air preheat |  | 085 | Wet cyclone separator |
| 028 | Steam or water injection |  | 086 | Water curtain |
| 029 | Low excess - air firing |  | 099 | Other control equipment or pollution control practices |
| 030 | Fuel w/low nitrogen content |  | 101 | High efficiency particulate air filter (HEPA) |
| 031 | Air injection |  | 106 | Dust suppression by physical stabilization |
| 032 | Ammonia injection |  | 107 | Selective noncatalytic reduction for Nitrogen Oxides (NOx) |
| 033 | Control of percent Oxygen (O2) in combustion Air |  | 109 | Catalytic oxydizer |
| 034 | Wellman-Lord/sodium sulfite scrubbing |  | 113 | Rotoclone |
| 035 | Magnesium oxide scrubbing |  | 131 | Thermal oxydizer |
| 036 | Dual alkali scrubbing |  | 139 | Selective catalytic reduction (SCR) |
| 037 | Citrate process scrubbing |  | 146 | Wet electrostatic precipitator |
| 038 | Ammonia scrubbing |  | 159 | Electrified filter bed |
| 039 | Cat. Oxidation - flue gas desulfurization |  | 203 | Catalytic converter |