

# Recent Changes to AQ Permit Application Forms

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# Why?

- Series of meetings held in 2007 with MPCA permitting staff and industry and consulting reps – “how can we make permits move faster?”
- Identified areas where problems can cause time delays
- CD-01 identified as a form that is often not well-utilized

# Changes to CD-01

- Existing form is pretty much blank, and asks you to fill in text for requirements and citations
- Original intent was that the information entered would be transferred to the permit and become the permit.
- It hasn't worked that way



1) AQ Facility ID No.: \_\_\_\_\_ 2) Facility Name: \_\_\_\_\_

3) Entire Facility  
Individual Items  
Grouped Items:  
Group ID Number \_\_\_\_\_  
Briefly describe the function of this group:  
\_\_\_\_\_

4)															
Stack/Vent ID Nos.															
Emission Unit ID Nos.															
Tank ID Nos.															
Fugitive Source ID Nos.															
Control Equipment ID Nos.															

<b>5a)</b> Citation	<b>5b)</b> Requirement	<b>5c)</b> Requirement Type (For MPCA Use)

# New CD-01

- 2 sections – one to use for a permit application for a 1<sup>st</sup> time operating permit, one to use for a permit application for an amendment to an existing operating permit
- We have lots of template language, don't need that regenerated on the form
- Typically don't need applicant to tell us citations, if GI-09 series is properly completed
- Want to use GI-09 more efficiently, and change CD-01 to ask what we really want to know



Facility Information

1) AQ Facility ID No.: \_\_\_\_\_

2) Facility Name: \_\_\_\_\_

Submit a separate form for each Emission Unit/Tank/Fugitive Source or Group of Sources as necessary. Refer to instructions starting on Page 8.

3a) Emission Unit /Tank/Fugitive Source Identification Number(s): \_\_\_\_\_

Associated Control Equipment Number(s): \_\_\_\_\_

Associated Monitoring System(s) (CEMS or COMS): \_\_\_\_\_

Associated Stack/Vent Number(s): \_\_\_\_\_

OR

3b) Group Description: \_\_\_\_\_

Emission Units/Tanks/Fugitive Sources Included in Group: \_\_\_\_\_

Control Equipment Included in Group: \_\_\_\_\_

Monitoring Systems (CEMS or COMS) Included in Group: \_\_\_\_\_

Stack/Vents Included in Group: \_\_\_\_\_

Use Section A of this form when you are applying for the first time for a new individual operating permit (federal or state). This includes:

- permits for construction of new facilities
- permits for existing facilities that are switching to an individual permit from a Registration Permit, Capped Permit, or General Permit
- permits for existing facilities subject to permitting for the first time

Use Section B of this form when you are applying for an amendment to an existing individual operating permit (federal or state).

If you have units subject to the Clean Air Interstate Rule (CAIR), you will also need to use Form CD-04.

Use Form CD-05 to identify operating parameters of control equipment when you are applying for the first time for an individual operating permit, or when applying for an amendment to an existing individual operating permit.

Section A - Compliance Plan for a New Individual Operating Permit

4) National Emission Standards for Hazardous Air Pollutants (NESHAP) for Source Categories (40 CFR Part 63)

4a) On Form GI-09A, did you identify a Part 63 NESHAP that is or will be applicable to the item or group identified in Question 3a or 3b (of this form)?

- NO. Go on to Question 4b.
- YES. Attach a copy of each applicable Part 63 NESHAP. Highlight all applicable requirements of the entire subpart.  Attached  Not attached

4b) On Form GI-09A, did you propose limits on the item or group identified in Question 3a or 3b (of this form) so that the entire facility is not a major source of HAPs?

- NO. Go on to Question 4c.
- YES. Below, list the limit(s) you proposed, providing the proposed compliance demonstration.

Proposed Limit	Proposed Compliance Demonstration

- 4c) On Form GI-09A, did you identify that a case-by-case determination of Maximum Achievable Control Technology (MACT) is required for the item or group identified in Question 3a or 3b (of this form)?
- NO. Go on to Question 5.
- YES. Attach your case-by-case proposal, including proposed compliance demonstration.
- Attached  Not attached

**5) National Emission Standards for Hazardous Air Pollutants (NESHAP) (40 CFR Part 61)**

- 5a) On Form GI-09B, did you identify a Part 61 NESHAP that is or will be applicable to the item or group identified in Question 3a or 3b (of this form)?
- NO. Go on to question 6.
- YES. Attach a highlighted copy of each applicable Part 61 NESHAP. Highlight all applicable requirements of the entire subpart.  Attached  Not attached

**6) New Source Performance Standards (NSPS) (40 CFR Part 60)**

- 6a) On Form GI-09D, did you identify a New Source Performance Standard that is or will be applicable to the item or group identified in Question 3a or 3b (of this form)?
- NO. Go on to question 7.
- YES. Attach a copy of each applicable NSPS. Highlight all applicable requirements of the entire subpart.  Attached  Not attached

**7) Acid Rain Requirements (40 CFR Part 72)**

- 7a) On Form GI-09E, did you identify that the acid rain requirements are applicable to the item or group identified in Question 3a or 3b (of this form)?
- NO. Go on to question 8.
- YES. Refer to <http://www.epa.gov/airmarkets/business/forms.html#arn> for the applicable Acid Rain Program forms and instructions.
- Applicable Forms attached and sent to EPA as appropriate  Not attached

**8) New Source Review (40 CFR Part 52.21)**

- 8a) On Form GI-09C, did you propose limits on the item or group identified in Question 3a or 3b (of this form) so that the entire facility is not a major source under New Source Review?
- NO. Go on to Question 8b.
- YES. Below, list the limit(s) you proposed, providing the proposed compliance demonstration.

Proposed Limit	Proposed Compliance Demonstration

8b) Will the stationary source be permitted as a major source under New Source Review?

- NO. Go on to Question 9.  
 YES. Go on to Question 8c.

8c) Is the item or group identified in Question 3a or 3b (of this form) subject to Best Available Control Technology (BACT) requirements?

- NO. Go on to Question 9.  
 YES. Below, list the BACT requirements proposed for the item or group identified in Question 3a or 3b of this form, providing the proposed compliance demonstration.

Proposed BACT Limit	Proposed Compliance Demonstration

9) Minnesota Standards of Performance (Minn. R. ch. 7011)

9a) On Form GI-09I, did you identify the item or group listed in Question 3a or 3b (of this form) as being subject to Minn. R. 7011.0515 (item 2a of Form GI-09I), any other industry specific Minnesota standard of performance (Table H of Form GI-09I), or to Minn. R 7011.0715 (item 4 of Form GI-09I)?

- NO. Go on to Question 10.  
 YES. List the rule(s) and specific limit(s) below, along with the proposed compliance demonstration.

Applicable Rule	Rule Limit	Proposed Compliance Demonstration

10) National or Minnesota Ambient Air Quality Standards (NAAQS or MAAQS)

10a) Is the item or group identified in Question 3a or 3b subject to an existing or proposed limit required in order to meet NAAQS or MAAQS? (This would be identified through modeling.)

- NO. Go on to Question 11.  
 YES. List the limit(s) below, along with the proposed compliance demonstration.

Proposed Limit	Proposed Compliance Demonstration

11) Environmental Assessment Worksheets (EAW) and Air Emissions Risk Analysis (AERA)

11a) Did you assume limits on the item or group listed in Question 3a or 3b in order to avoid the need to do an EAW or AERA?

- NO  
 YES:  To avoid an AERA and/or  To avoid an EAW

List the limit(s) below, along with the proposed compliance demonstration.

Proposed Limit	Proposed Compliance Demonstration

11b) Does the item or group identified in Question 3a or 3b require limits based on the results of an EAW or AERA that was performed?

- NO  
 YES:  AERA and/or  EAW

List the limit(s) below, along with the proposed compliance demonstration.

Proposed Limit	Proposed Compliance Demonstration

12) Is there pollution control equipment associated with the item or group identified?  
 NO.  YES – Complete Form CD-05 for each associated control device.

**Section B - Compliance Plan for an Amendment to an Existing Individual Operating Permit**

13) To the extent that your proposed permit amendment consists of edits to existing permit language, you should attach to this form a copy of the relevant page(s) of the existing permit with proposed changes clearly marked. See instructions for examples.

For any proposed changes that cannot be easily and clearly shown by submitting marked-up pages from your existing permit, answer the questions that follow.

Check one or both of the following statements, as applicable.

- All or part of the proposed permit changes for the item or group identified in Question 3a or 3b is shown by edits to the existing permit language, a copy of which is attached to this form.  
 Some of the proposed permit changes for the item or group identified in Question 3a or 3b cannot be shown by simply marking up existing permit language, so I am answering the questions below.

14) National Emission Standards for Hazardous Air Pollutants (NESHAP) for Source Categories (40 CFR Part 63)

14a) On CH-07, did you identify a newly applicable Part 63 NESHAP for the item or group identified in Question 3a or 3b (of this form)?

- NO. Go on to Question 14b.  
 YES. Attach a copy of each newly applicable Part 63 NESHAP. Highlight all applicable requirements of the entire subpart.  Attached  Not attached

14b) On Form CH-07, did you propose limits on the item or group identified in Question 3a or 3b (of this form) so that the entire facility is not a major source of HAPs?

- NO. Go on to Question 14c.  
 YES. Below, list the limit(s) you proposed, providing the proposed compliance demonstration.

Proposed Limit	Proposed Compliance Demonstration

- 14c) On Form CH-07, did you identify that a case-by-case determination of Maximum Achievable Control Technology (MACT) is required for the item or group identified in Question 3a or 3b (of this form)?
- NO. Go on to Question 15.
- YES. Attach your case-by-case proposal, including proposed compliance demonstration.
- Attached  Not attached

**15) National Emission Standards for Hazardous Air Pollutants (NESHAP) (40 CFR Part 61)**

- 15a) On Form CH-08, did you identify a newly applicable Part 61 NESHAP for the item or group identified in Question 3a or 3b (of this form)?
- NO. Go on to question 16.
- YES. Attach a highlighted copy of each newly applicable Part 61 NESHAP. Highlight all applicable requirements of the entire subpart.  Attached  Not attached

**16) New Source Performance Standards (NSPS) (40 CFR Part 60)**

- 16a) On Form CH-05, did you identify a newly applicable New Source Performance Standard for the item or group identified in Question 3a or 3b (of this form)?
- NO. Go on to question 17.
- YES. Attach a copy of each newly applicable NSPS. Highlight all applicable requirements of the entire subpart.  Attached  Not attached

**17) Acid Rain Requirements (40 CFR Part 72)**

- 17a) Does the unit or group identified in Question 3a or 3b include new electricity generating equipment capable of generating 25 MW or more of electricity?
- NO. Go on to question 18.
- YES. The equipment may be subject to acid rain requirements. Refer to <http://www.epa.gov/airmarkets/business/forms.html#arm> for the applicable Acid Rain Program forms and instructions.
- Applicable Forms attached and sent to EPA as appropriate  Not attached

**18) New Source Review (40 CFR Part 52.21)**

- 18a) On Form CH-04, CH-04a, or CH-04b, did you indicate the intention to propose limits on the item or group identified in Question 3a or 3b (of this form) so that the proposed modification is not subject to New Source Review, or so that entire facility is not a major source under New Source Review? (If you are proposing limits, but on an item or group other than identified in Question 3a or 3b of this form, then answer NO.)
- NO. Go on to Question 18b.
- YES. Below, list the limit(s) you are proposing, including the proposed compliance demonstration. Then go on to Question 19.

Proposed Limit	Proposed Compliance Demonstration

- 18b) Is the unit or group identified in Question 3a or 3b (of this form) subject to New Source Review?
- NO. Go on to Question 19.
- YES. Go on to Question 18c.

18c) Is the item or group identified in Question 3a or 3b (of this form) subject to Best Available Control Technology (BACT) requirements?

- NO. Go on to Question 19.
- YES. Below, list the BACT requirements proposed for the item or group identified in Question 3a or 3b of this form, providing the proposed compliance demonstration.

Proposed BACT Limit	Proposed Compliance Demonstration

**19) Minnesota Standards of Performance (Minn. R. ch. 7011)**

19a) On Form CH-13, did you identify the item or group listed in Question 3a or 3b (of this form) as being subject to Minn. R. 7011.0515 (item 3a of Form CH-13), any other industry specific Minnesota standard of performance (Table 1 of Form CH-13), or to Minn. R 7011.0715 (item 5 of Form CH-13)?

- NO. Go on to Question 20.
- YES. List the rule(s) and specific limit(s) below, along with the proposed compliance demonstration.

Applicable Rule	Rule Limit	Proposed Compliance Demonstration

**20) National or Minnesota Ambient Air Quality Standards (NAAQS or MAAQS)**

20a) Will the item or group identified in Question 3a or 3b be subject to a limit required in order to meet NAAQS or MAAQS? (This would be identified through modeling.)

- NO. Go on to Question 21.
- YES. List the limit(s) below, along with the proposed compliance demonstration.

Proposed Limit	Proposed Compliance Demonstration

**21) Environmental Assessment Worksheets (EAW) and Air Emissions Risk Analysis (AERA)**

21a) Did you assume limits on the item or group listed in Question 3a or 3b in order to avoid the need to do an EAW or AERA?

- NO
- YES:  To avoid an AERA and/or  To avoid an EAW

List the limit(s) below, along with the proposed compliance demonstration.

Proposed Limit	Proposed Compliance Demonstration

21b) Does the item or group identified in Question 3a or 3b require limits based on the results of an EAW or AERA that was performed?

NO

YES:  AERA and/or  EAW

List the limit(s) below, along with the proposed compliance demonstration.

Proposed Limit	Proposed Compliance Demonstration

22) Is there pollution control equipment associated with the item or group identified?

NO.  YES – Complete Form CD-05 for each associated control device.

# Collateral Changes

- When we decided to make this change to CD-01, we discovered that some of the GI-09 and CH-xx forms weren't compatible with the changes
- So we changed some other existing forms
- And we added some new forms

# Other Changed Forms

- GI-09A: Part 63 NESHAP
  - Use only for a first-time operating permit
  - Added area source standards
  - 3 sections – complete the applicable section only
    - New individual permit for construction of a new facility
    - 1<sup>st</sup> time individual permit for existing facility currently covered by registration, capped, or state general permit (limits to < 10/25 tpy HAP)
    - 1<sup>st</sup> time individual permit for existing facility currently covered by Part 70 general permit (allows 10/25 tpy HAP)

# Other Changed Forms

- CH-07: Part 63 NESHAP
  - Use only when applying for an amendment to an existing permit
  - Updated standards, including area source standards
  - Modified to a format consistent with GI-09A

# Other Changed Forms

- GI-09C: Applicability of New Source Review
- Use for 1<sup>st</sup> time Individual Operating Permit
  - 2 sections – one for construction of a new facility, one for a 1<sup>st</sup> time individual operating permit for an existing facility
- Still use CH-04/CH-04A/CH-04B for amendments to existing operating permits

# New Form

- CD-05: Compliance Plan for Control Equipment
  - This is an area where CD-01 has often been incomplete
  - CD-05 makes it easier to know what control equipment information we expect will be provided



Facility Information

1) AQ Facility ID No.: \_\_\_\_\_

2) Facility Name: \_\_\_\_\_

3) Electrostatic Precipitators (includes wet electrostatic precipitators) (control codes 010, 011, 012, 128, 146)

Complete the following information for each electrostatic precipitator not already included in an existing individual permit. For changes to parameters of electrostatic precipitators already included in an existing permit, attach a copy of the relevant permit page with proposed changes clearly marked.

CE Number:	Control Efficiency Basis (for control and capture efficiencies listed on Form GI-05A)	Using control equipment rule?	Voltage	Secondary Current	Minimum Fields Online	Using conditioning agent?	Conditioning agent flow rate, if applicable	Subject to CAM?	For a "Large" or "Other" PSEU?
		<input type="checkbox"/> No <input type="checkbox"/> Yes				<input type="checkbox"/> No <input type="checkbox"/> Yes		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA
		<input type="checkbox"/> No <input type="checkbox"/> Yes				<input type="checkbox"/> No <input type="checkbox"/> Yes		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA
		<input type="checkbox"/> No <input type="checkbox"/> Yes				<input type="checkbox"/> No <input type="checkbox"/> Yes		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA
		<input type="checkbox"/> No <input type="checkbox"/> Yes				<input type="checkbox"/> No <input type="checkbox"/> Yes		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA
		<input type="checkbox"/> No <input type="checkbox"/> Yes				<input type="checkbox"/> No <input type="checkbox"/> Yes		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA

**4) Fabric Filters (control codes 016, 017, 018)**

Complete the following information for each fabric filter not already included in an existing individual permit. For changes to parameters for fabric filters already included in an existing permit, attach a copy of the relevant permit page with proposed changes clearly marked.

CE Number:	Control Efficiency Basis (for control and capture efficiencies listed on Form GI-05A)	Using control equipment rule?	Pressure Drop (inches of water column)	Bag leak detector in use?	Subject to CAM?	For a "Large" or "Other" PSEU?
		<input type="checkbox"/> No <input type="checkbox"/> Yes		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> NA <input type="checkbox"/> Other
		<input type="checkbox"/> No <input type="checkbox"/> Yes		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> NA <input type="checkbox"/> Other
		<input type="checkbox"/> No <input type="checkbox"/> Yes		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> NA <input type="checkbox"/> Other
		<input type="checkbox"/> No <input type="checkbox"/> Yes		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> NA <input type="checkbox"/> Other
		<input type="checkbox"/> No <input type="checkbox"/> Yes		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> NA <input type="checkbox"/> Other
		<input type="checkbox"/> No <input type="checkbox"/> Yes		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> NA <input type="checkbox"/> Other

**5) Panel/Wall Filters (including HEPA filters) (control codes 058, 101) Mechanically Aided Separators (control code 056, 113)**

Complete the following information for each wall or panel filter not already included in an existing individual permit. For changes to parameters for filters already included in an existing permit, attach a copy of the relevant permit page with proposed changes clearly marked.

CE Number:	Control Efficiency Basis (for control and capture efficiencies listed on Form GI-05A)	Using control equipment rule?	Subject to CAM?	For a "Large" or "Other" PSEU?
		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA
		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA
		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA
		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA
		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA
		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA

**6) Cyclones/Multiclones (control code 007, 008, 009, 076)**

Complete the following information for each cyclone or multiclone not already included in an existing individual permit. For changes to parameters for cyclones or multiclones already included in an existing permit, attach a copy of the relevant permit page with proposed changes clearly marked.

CE Number:	Control Efficiency Basis (for control and capture efficiencies listed on Form GI-05A)	Using control equipment rule?	Pressure Drop (inches of water column)	Subject to CAM?	For a "Large" or "Other" PSEU?
		<input type="checkbox"/> No <input type="checkbox"/> Yes		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA
		<input type="checkbox"/> No <input type="checkbox"/> Yes		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA
		<input type="checkbox"/> No <input type="checkbox"/> Yes		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA
		<input type="checkbox"/> No <input type="checkbox"/> Yes		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA
		<input type="checkbox"/> No <input type="checkbox"/> Yes		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA
		<input type="checkbox"/> No <input type="checkbox"/> Yes		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA

**7) Wet Cyclone Separator (control code 057, 085)**

Complete the following information for each wet cyclone separator not already included in an existing individual permit. For changes to parameters for wet cyclone separators already included in an existing permit, attach a copy of the relevant permit page with proposed changes clearly marked.

CE Number:	Control Efficiency Basis (for control and capture efficiencies listed on Form GI-05A)	Using control equipment rule?	Pressure Drop (inches of water column)	Water pressure (psi)	Subject to CAM?	For a "Large" or "Other" PSEU?
		<input type="checkbox"/> No <input type="checkbox"/> Yes			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA
		<input type="checkbox"/> No <input type="checkbox"/> Yes			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA
		<input type="checkbox"/> No <input type="checkbox"/> Yes			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA
		<input type="checkbox"/> No <input type="checkbox"/> Yes			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA
		<input type="checkbox"/> No <input type="checkbox"/> Yes			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA
		<input type="checkbox"/> No <input type="checkbox"/> Yes			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA

**8) Spray Tower (control code 052), Venturi Scrubber (control code 053), Impingement Plate Scrubber (control code 055), or Charged Scrubber (control code 503)**

Complete the following information for each wet scrubber not already included in an existing individual permit. For changes to parameters for wet scrubbers already included in an existing permit, attach a copy of the relevant permit page with proposed changes clearly marked.

CE Number:	Control Efficiency Basis (for control and capture efficiencies listed on Form GI-05A)	Using control equipment rule?	Pressure Drop (inches of water column)	Liquid flow rate (gal/min)	Subject to CAM?	For a "Large" or "Other" PSEU?
		<input type="checkbox"/> No <input type="checkbox"/> Yes			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA
		<input type="checkbox"/> No <input type="checkbox"/> Yes			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA
		<input type="checkbox"/> No <input type="checkbox"/> Yes			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA
		<input type="checkbox"/> No <input type="checkbox"/> Yes			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA
		<input type="checkbox"/> No <input type="checkbox"/> Yes			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA
		<input type="checkbox"/> No <input type="checkbox"/> Yes			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA

**9) Condensation Scrubber (control code 517)**

Complete the following information for each condensation scrubber not already included in an existing individual permit. For changes to parameters for condensation scrubbers already included in an existing permit, attach a copy of the relevant permit page with proposed changes clearly marked.

CE Number:	Control Efficiency Basis (for control and capture efficiencies listed on Form GI-05A)	Using control equipment rule?	Pressure Drop (inches of water column)	Steam Supply rate (units)	Blowdown Rate (units)	Subject to CAM?	For a "Large" or "Other" PSEU?
		<input type="checkbox"/> No <input type="checkbox"/> Yes				<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA
		<input type="checkbox"/> No <input type="checkbox"/> Yes				<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA
		<input type="checkbox"/> No <input type="checkbox"/> Yes				<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA
		<input type="checkbox"/> No <input type="checkbox"/> Yes				<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA
		<input type="checkbox"/> No <input type="checkbox"/> Yes				<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA

**10) Thermal Oxidation (control code 021, 022, 131, 133, 510)**

Complete the following information for each thermal oxidizer not already included in an existing individual permit. For changes to parameters for thermal oxidizers already included in an existing permit, attach a copy of the relevant permit page with proposed changes clearly marked.

CE Number:	Control Efficiency Basis (for control and capture efficiencies listed on Form GI-05A)	Using control equipment rule?	Combustion Temperature (degrees F)	Inlet and Outlet Temperatures (degrees F)	Residence Time (seconds)	Subject to CAM?	For a "Large" or "Other" PSEU?
		<input type="checkbox"/> No <input type="checkbox"/> Yes		Inlet: _____ Outlet: _____		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> NA <input type="checkbox"/> Other
		<input type="checkbox"/> No <input type="checkbox"/> Yes		Inlet: _____ Outlet: _____		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> NA <input type="checkbox"/> Other
		<input type="checkbox"/> No <input type="checkbox"/> Yes		Inlet: _____ Outlet: _____		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> NA <input type="checkbox"/> Other
		<input type="checkbox"/> No <input type="checkbox"/> Yes		Inlet: _____ Outlet: _____		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> NA <input type="checkbox"/> Other
		<input type="checkbox"/> No <input type="checkbox"/> Yes		Inlet: _____ Outlet: _____		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> NA <input type="checkbox"/> Other

**11) Catalytic Oxidation (control code 019, 020, 109, 116, 509)**

Complete the following information for each catalytic oxidizer not already included in an existing individual permit. For changes to parameters for catalytic oxidizers already included in an existing permit, attach a copy of the relevant permit page with proposed changes clearly marked.

CE Number:	Control Efficiency Basis (for control and capture efficiencies listed on Form GI-05A)	Using control equipment rule?	Catalyst Bed Reactivity (units)	Inlet and Outlet Temperatures (degrees F)	Subject to CAM?	For a "Large" or "Other" PSEU?
		<input type="checkbox"/> No <input type="checkbox"/> Yes		Inlet: _____ Outlet: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> NA <input type="checkbox"/> Other
		<input type="checkbox"/> No <input type="checkbox"/> Yes		Inlet: _____ Outlet: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> NA <input type="checkbox"/> Other
		<input type="checkbox"/> No <input type="checkbox"/> Yes		Inlet: _____ Outlet: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> NA <input type="checkbox"/> Other
		<input type="checkbox"/> No <input type="checkbox"/> Yes		Inlet: _____ Outlet: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> NA <input type="checkbox"/> Other
		<input type="checkbox"/> No <input type="checkbox"/> Yes		Inlet: _____ Outlet: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> NA <input type="checkbox"/> Other

**12) Vapor Recovery Systems (including condensers) (control code 047)**

Complete the following information for each vapor recovery system not already included in an existing individual permit. For changes to parameters for vapor recovery systems already included in an existing permit, attach a copy of the relevant permit page with proposed changes clearly marked.

CE Number:	Control Efficiency Basis (for control and capture efficiencies listed on Form GI-05A)	Temperature Range (degrees F)	Condenser Pressure Drop Range (inches of water column)	Filter Pressure Drop Range (inches of water column)	Subject to CAM?	For a "Large" or "Other" PSEU?
					<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA
					<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA
					<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA
					<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA
					<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA

**13) Flaring (control code 023)**

Complete the following information for each flare not already included in an existing individual permit. For changes to parameters for cyclones or multicyclones already included in an existing permit, attach a copy of the relevant permit page with proposed changes clearly marked.

CE Number:	Control Efficiency Basis (for control and capture efficiencies listed on Form GI-05A)	Using control equipment rule?	Temperature (indicating presence of flame) (degrees F)	Subject to CAM?	For a "Large" or "Other" PSEU?
		<input type="checkbox"/> No <input type="checkbox"/> Yes		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA
		<input type="checkbox"/> No <input type="checkbox"/> Yes		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA
		<input type="checkbox"/> No <input type="checkbox"/> Yes		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA
		<input type="checkbox"/> No <input type="checkbox"/> Yes		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA
		<input type="checkbox"/> No <input type="checkbox"/> Yes		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA

### 13) Other Controls

Complete the following information for each control device not described above and not already included in an existing individual permit. For changes to parameters for any other control devices that are already included in an existing permit, attach a copy of the relevant permit page with proposed changes clearly marked.

CE Number:	Control Efficiency Basis (for control and capture efficiencies listed on Form GI-05A)	Operating Parameters (describe)	Subject to CAM?	For a "Large" or "Other" PSEU?
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Large <input type="checkbox"/> Other <input type="checkbox"/> NA

# Where are the Forms?

<http://www.pca.state.mn.us/air/permits/forms.html>

Check for revised forms whenever you start a new application.