

SEE INSTRUCTIONS ON REVERSE SIDE

Section A

1. Facility name:	2. Facility identification number
3. Stack identification number	4. Unit identification number
5. Control device number	
6. Manufacturer and model number	
7. Date of installation	

8. Describe in detail the control system. Attach a blueprint or diagram of the system. Attached? _____

9. List the pollutants to be controlled by this equipment and the expected control efficiency for each pollutant on the table below.

Documentation is attached

Pollutant	Inlet pollutant concentration		Outlet pollutant concentration		Efficiency (%)
	gr/acf	ppmv	gr/acf	ppmv	

10. Discuss how the collected material will be handled for reuse or disposal.

11. Prepare a malfunction prevention and abatement plan (if required under s. NR 439.11) for this pollution control system.

Please include the following:

- a. Identification of the individual(s), by title, responsible for inspecting, maintaining and repairing this device.
- b. Operation variables that will be monitored in order to detect a malfunction or breakthrough, the correct operating range of these variables, and a detailed description of monitoring or surveillance procedures that will be used to show compliance.
- c. An inspection schedule and items or conditions that will be inspected.
- d. A listing of materials and spare parts that will be maintained in inventory.
- e. Is this plan available for review?

Section B

The following questions must be answered by sources installing new equipment or existing Units which cannot document control efficiency of this device by other means.

12. Liquid flow rate (gal/min):	13. Pressure drop across the scrubber and demister (inches of H ₂ O):
14. Inlet gas flow rate (ACFM):	15. Inlet gas temperature (°F):
16. Scrubbing medium (water, sodium hydroxide slurry, etc.):	17. Liquid inlet pressure (psi):

CONTROL EQUIPMENT - WET COLLECTION SYSTEMS -- Form 4530-116
AIR POLLUTION CONTROL PERMIT APPLICATION INSTRUCTIONS

NOTE: Use of this form is required by the Department for any air pollution control permit application filed pursuant to ss. 285.61, 285.62 or 285.66, Wis. Stats. Completion of this form is mandatory. The Department will not consider or act upon your application unless you complete and submit this application form. It is not the Department's intention to use any personally identifiable information from this form for any other purpose.

Complete one form for each control device used to reduce air pollution emissions.

- Item 1 Provide the name of the facility.
- Item 2 Provide the facility identification (FID) number that appears on the annual emission inventory reports.
- Item 3 Provide the identification number for the stack exhausting to this device. Use the same number used on form 4530-103.
- Item 4 Provide the identification number from the appropriate form(s) 4530-104, -105, -106, -107, -108, or -109 completed for the emissions unit(s) that will have its emissions reduced by this control equipment.
- Item 5 Assign an identification number to this control device (e.g., C01). Use this number when referring to this device throughout the rest of your application.
- Item 6 Indicate the equipment manufacturer and its model number.
- Item 7 Provide the installation date of this device. If this is a new device, indicate that it is new.
- Item 8 Give a detailed description of the wet collection system used. Include information on specific type of scrubber (venturi, orifice, impingement plate), the scrubbing medium distribution system, the mist elimination system, nozzle or plate types, and any other relevant information. Show any calculations. Attach a blueprint or diagram of the system. Manufacturer's literature may be used. Attach extra information on form 4530-135.
- Item 9 For each pollutant controlled, enter the inlet pollutant concentration and outlet pollutant concentration (use the same units), hood capture efficiency, and the overall efficiency of the control device. **YOU MUST DOCUMENT** all data by stack test, manufacturer-supplied guarantees, or by other means approved by the Department. Indicate that data is attached.
- Item 10 Discuss how collected material will be contained, transported, and ultimately disposed of. Examples of ultimate disposal include the local wastewater treatment plant or landfill. Describe any waste recycling or reuse.
- Item 11 Prepare a malfunction prevention and abatement plan according to sec. NR 439.11, Wis. Adm. Code. Please be as detailed as possible, keeping in mind that the rule contains more detail than appears at Item 11 of this form. While it is not necessary to submit this plan with the permit application, the Department may at any time request a copy of this plan from the facility.

Section B - This section must be completed by sources installing new equipment or by existing sources which cannot otherwise document the control efficiency of this device (such as with current stack test results). **IF YOU HAVE ALREADY SUBSTANTIATED THE CONTROL EFFICIENCY OF THE DEVICE AT ITEM 9 ABOVE, YOU DO NOT NEED TO COMPLETE SECTION B.**

- Item 12 Give the liquid flow rate (in gallons per minute).
- Item 13 Give the operating pressure drop range across the scrubber and the demister (in inches of water).
- Item 14 Give the flow rate at the inlet of the gas to be cleaned (in actual cubic feet per minute).
- Item 15 Give the temperature of the inlet gas (in degrees F).
- Item 16 Indicate the scrubbing medium used. If not water, give the composition of the scrubbing medium including concentrations or mole fractions, etc. Form 4530-135 may be used for this purpose.
- Item 17 Indicate the liquid inlet pressure (in pounds per square inch).