

STACK IDENTIFICATION -- Form 4530-103

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.

One form must be completed for each stack (or release point such as roof vent, wall vent, etc.).

Item 1 Provide the facility name.

Item 2 Provide the facility identification (FID) number that appears on the annual emissions inventory reports.

Item 3 Assign a three-character identification number for this stack (e.g., S01). Use the existing identification number from the Air Emissions Inventory.

Item 4 List the identification(s) for the emissions unit(s) that will vent through this stack. Use the existing identification number(s) from the Air Emissions Inventory. Use this number on the appropriate forms 4530-104, -106, -107, -108 or -109 for the unit(s). Examples: Boiler No. 1 can be "B01," Process No. 3 can be "P03" (see instruction booklet for details).

Item 5 Identify this stack or release point on the required plot plan.

Item 6 An "actual exhaust point" is a real stack that may be described by the physical parameters listed in items 7 through 13 of this form. "Fugitive emissions" means emissions from any emissions point within a facility (the buildings plus the grounds) other than a flue or stack. If you check "this stack serves to identify fugitive emissions," you do not need to complete the rest of the form.

In some cases the current emissions inventory (EI) groups several actual stacks into one fictitious stack, or several fugitive emission points are grouped into a single fictitious stack for accounting purposes. In such a situation, please retain the existing stack grouping from the EI for the purpose of completing your permit application and explain this on an attachment (Form 4530-135 may be used for this purpose).

Where groupings don't already exist, you may wish to combine several actual stacks into one fictitious stack. This would allow you to assign all of the emissions from a particular process line having several stacks, such as a manufacturing line involving painting, to a single stack. **IF YOU DECIDE TO GROUP STACKS IN A WAY OTHER THAN THE WAY THEY ARE GROUPED ON YOUR EMISSIONS INVENTORY, PLEASE ATTACH FORM 4530-135, SUPPLEMENTAL INFORMATION, TO EXPLAIN THE REVISED STACK GROUPING. IN THIS WAY THE DEPARTMENT WILL BE ABLE TO RECONCILE THE APPLICATION AND THE EMISSIONS INVENTORY FOR YOUR PLANT.**

Item 7 Provide the height (in feet) at which the stack discharges above ground level.

Item 8 Check appropriate shape of the stack. For circular shapes provide the diameter (in feet), and for rectangular shapes provide the length (L) and width (W) (in feet).

Item 9 Provide the normal exhaust flow rate in units of actual cubic feet per minute (ACFM) and the maximum exhaust flow rate expected (in ACFM).

Item 10 Provide the normal exhaust gas temperature (in °F).

Item 11 Provide the normal and maximum moisture content.

Item 12 Check appropriate discharge direction. If the direction of discharge is at an angle, check the nearest direction.

Item 13 Check the appropriate box.

***** For each emissions unit that vents through this stack, complete and attach the appropriate form(s) 4530-104 through -109. After doing so, start your second stack form, if you have additional stacks, and its associated emissions unit(s), control equipment, and compliance demonstration form(s).

BOILER OR FURNACE OPERATION -- Form 4530-104

AIR POLLUTION CONTROL PERMIT APPLICATION INSTRUCTIONS

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Complete one form for each boiler or furnace with significant 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 this boiler or furnace. Use the same number used on form 4530-103.

Item 4 Assign an identification number to this boiler or furnace (e.g., B21). Use the existing identification number from the Air Emissions Inventory. Use this number on other forms related to this unit.

Item 4a Provide a brief description of this unit.

Item 5 If this boiler or furnace is controlled, assign a control device number (e.g., C30) to the air pollution control device associated with it. Use this number on the appropriate form(s) 4530-110 through -117.

Item 6 State the type of furnace in terms of the firing configuration (e.g., cyclone, spreader stoker, fluidized bed, etc.).

Item 7 The maximum continuous rating of the furnace refers to the furnace's ability to sustain a maximum heat input for three hours. Provide the rating (in million BTU per hour).

Item 8 Provide the boiler or furnace manufacturer. If it is unknown, write "unknown".

Item 9 Provide the boiler or furnace model number. If it is unknown, write "unknown".

Item 10 Record the date of installation or last modification of the emissions unit. Provide the month and date if possible. Write in "00" if unknown (e.g., 00/00/56). Indicate if this is a new source.

Item 11 Complete the table for all fuels presently used with this boiler or furnace, plus all fuels desired for use in alternative operating scenarios that don't require physical changes to the boiler to accommodate the fuels. In other words, identify those fuels presently fired in the boiler (primary and backup fuels) as well as fuels of future interest that could be burned without modifying the boiler. (If someone presently operates a gas-only boiler and wants the capability to burn heavy oil in the future, that person would need to first receive a permit to modify from the Department because a physical change to the boiler - adding a fuel oil burner - would be required to accommodate the heavy oil. A permit to modify would require a separate application from the operation permit application.)

Please attach Form 4530-135 to characterize the fuels in the table as either "present" fuels or fuels to be allowed under alternative operating scenarios. The fuel data provided in this table will form the basis of any permit conditions necessary to ensure compliance with emission limits and ambient air quality standards. You may specify parameter ranges. The stated upper limit should be equal to the expected maximum value. Specify the units (e.g., lbs/hr, BTU/lb, gal/yr, etc.) along with the numerical values for each fuel parameter.

Note: For "excess combustion air", provide the percent oxygen (O₂) in the flue gas, if known, typically observed during the firing of each fuel listed in the table. If flue gas O₂ is not known, provide the furnace excess air as the percent above stoichiometric (i.e., 20 percent excess air is equivalent to 120 percent theoretical air, where "theoretical air" means the amount of combustion air exactly sufficient to completely combust the fuel in perfect (i.e., theoretical) combustion conditions. For natural gas combustion, 5 - 10 percent excess air is typical, and for stoker coal combustion, 30 - 50 percent excess air is a typical range.

STORAGE TANKS -- Form 4530-105
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 significant storage tank.

- 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 Assign an identification number to this storage tank (e.g., T21). Use the existing identification number from the Air Emissions Inventory. Use this number on other forms related to this unit.
- Item 4 If the storage tank is controlled, assign a control device number (e.g., C30) to the air pollution control device associated with it. Use this number on the appropriate form(s) 4530-110 through -117.
- Item 5 Enter the storage tank capacity (in gallons).
- Item 6 Record the date of installation or last modification of the emissions unit. Provide the month and date if possible. Write in "00" if unknown (e.g., 00/00/56). Indicate if this is a new source.
- Item 7 Provide the tank shell height (in feet).
- Item 8 Provide the tank diameter (in feet).
- Item 9 Check the appropriate space. If you select "other," enter the color.
- Item 10 A submerged fill pipe is any pipe with a discharge opening that is entirely submerged when the liquid level is six inches (15.2 centimeters) above the tank bottom.
- Item 11 Check the appropriate space. If you select "yes," enter the pressure and vacuum (in psia).
- Item 12 Check the appropriate tank type. See instruction booklet for details.
- Item 13 Answer only if you have a fixed roof. Check the appropriate spaces and provide information. To calculate the tank roof height of a cone roof tank, use the following equation. If you don't know the slope, use the standard value of 0.0625 ft/ft.

$$\text{Tank roof height (in feet)} = \text{slope of cone roof (in ft/ft)} \times \text{tank shell radius (in feet)}$$

To calculate the tank roof height of a dome roof tank, use the following equation:

$$H_R = R_R - (R_R^2 - R_S^2)^{0.5}$$

Where: H_R = the tank roof height (in feet), R_R = the tank dome roof radius (in feet), and R_S = the tank shell radius (in feet).

- Item 14 Answer only if you have an internal or external floating roof tank. Check the shell condition.

Item 15 Answer only if you have an external floating roof tank.

- a. Check the appropriate tank construction.
- b. List the average wind speed at the tank site. The average wind speed in Green Bay is 10.0 mph, in La Crosse is 8.8 mph, in Madison is 9.9 mph, and in Milwaukee is 11.6 mph. If you don't know the average wind speed, choose the wind speed for the city located closest to the tank site.
- c. Check the appropriate rim seal type.
- d. Check the appropriate roof type.
- e. Indicate the total number of each appropriate roof fitting type in the space provided.

Item 16 Answer only if you have an internal floating roof tank.

- a. Check the appropriate rim seal type.
- b. Indicate the number of fixed roof support columns. Enter "0" if the fixed roof is self supported.
- c. Indicate the effective column diameter (in feet). If you have a 9-inch by 7-inch built-up column, enter 1.1 feet. If you have an 8-inch diameter pipe column, enter 0.7 feet. If you have a dimension other than these standards, use the equation $[\text{column perimeter (in feet)}]/3.14$. If you don't know the dimensions, use 1.0 feet.
- d. Check the appropriate deck type.
- e. Indicate the total deck seam length.
- f. Indicate the deck area.
- g. Indicate the total number of each appropriate deck fitting type in the space provided.

Item 17 Answer only if you have a variable vapor space tank. Indicate the volume expansion capacity of the variable vapor space achieved by roof lifting or diaphragm flexing.

Item 18 Complete this table for all materials that are stored in this tank. Vapor pressures should be given as real vapor pressures at the tank conditions given. Do not supply Reid vapor pressures.

Item 19 Indicate the maximum gallons of liquid that can be fed to the tank in one hour. If the tank is being loaded from tank trucks or railcars, and more than one truck or railcar can be unloaded in one hour, take into account the time it takes to unhook one truck or railcar and hook up another.

Item 20 Indicate whether other tanks can be loaded at the same time, and if so, which ones.

Item 21 Describe the operations that this tank will serve. Also indicate here if this tank will serve operations at: a bulk terminal which receives gasoline from refineries, a bulk gasoline plant which receives gasoline from bulk gasoline terminals for subsequent distribution to dispensing facilities, or a pharmaceutical manufacturing facility.

INCINERATION -- Form 4530-106
AIR POLLUTION CONTROL PERMIT APPLICATION INSTRUCTIONS

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Complete one form for each incinerator used to burn waste materials.

- 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 this incinerator. Use the same number used on form 4530-103.
- Item 4 Assign an identification number to this incinerator (e.g., I21). Use the existing identification number from the Air Emissions Inventory. Use this number on other forms related to this operation.
- Item 4a Give a brief description of the incinerator, including the manufacturer name and model number.
- Item 5 If the incinerator is controlled, assign a control device number (e.g., C30) to the air pollution control device associated with it. Use this number on the appropriate form(s) 4530-110 through -117.
- Item 6 Check the appropriate incinerator type. If not one of the six listed, check "other" and specify the type.
- Item 7 Record the date of installation or last modification of the emissions unit. Provide the month and date if possible. Write in "00" if unknown (e.g., 00/00/56). Indicate if this is a new source.
- Item 8 Fill in the normal operating schedule.
- Item 9 Fill in the maximum operating schedule.
- Item 10 List specifically the types of materials to be incinerated (e.g., paper, cardboard, wood boxes, rags, restaurant animal and vegetable wastes, human and animal remains, industrial by-product liquid, semi-liquid or solid wastes, etc.). Identify the source or type of operation from which the wastes originate. For hazardous waste or wastes with complex chemical composition, provide chemical analysis.
- Item 11 Indicate whether the incinerator is batch or continuous feed. Provide the design maximum charging rate. Examples are hand-fired, ram-fed, overhead grapple bucket to charging hopper, etc. Provide the method by which wastes are charged.
- Item 12 Provide the design primary and secondary combustion chamber temperatures, the maximum heat input (size) to each chamber in million BTU per hour, and list the fuels used by each burner (e.g., natural gas, No. 2 fuel oil, liquid propane, etc.). Include backup fuels. If your incinerator has only one combustion chamber, write "NA" or "-" in the data fields for secondary chamber.
- Item 13 Enter the residence time of gas in the secondary chamber. If your incinerator has only one combustion chamber, interpret this item to refer to that single chamber.
- Item 14 Check the appropriate box. If yes, fill in the projected energy production rate.
- Item 15 If the incinerator has an emergency dump stack, attach documentation of the authority to use it. Since an emergency dump stack may only be used under specific circumstances (as approved in a permit, plan approval, or order issued by the Department), please briefly describe the authority you have to operate the dump stack. Form 4530-135 may be used for this purpose.
- Item 16 Describe the start-up and shut-down procedures, including the frequency, time required, auxiliary burner usage, etc. Section NR 439.11, Wis. Adm. Code, describes the content of malfunction prevention and abatement plans.

PRINTING OPERATIONS -- Form 4530-107
AIR POLLUTION CONTROL PERMIT APPLICATION INSTRUCTIONS

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Complete one form for each significant printing operation.

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 this printing operation. Use the same number used on Form 4530-103. The same stack identification number should appear on all appropriate forms used in conjunction with this operation. If there is more than one stack exhausting this unit, please attach Form 4530-135 (Supplemental Information) to further describe the situation.

Item 4 Assign an identification number to this printing operation (e.g., Process P30). Use the existing identification number from the Air Emissions Inventory. Use this number on other forms related to this operation.

Item 4a Provide the manufacturer's name and equipment's model number for this printing operation. Specify dryer manufacturer and model, and specify the type of substrate to be printed. In addition, specify the maximum process weight rates for this operation in pounds per hour. Maximum process weight rate is the maximum weight of inks and substrate introduced to this operation in pounds per hour.

Item 5 Specify the type of control device used to reduce emissions from this operation. If the operation is uncontrolled, check "uncontrolled". For controlled operations, provide an identification number (e.g., C10, C20, etc.) for the control device. This assigned control device number should also be used on the appropriate Form (s) 4530-110, 111, 112, 113, 114, 115, 116, or 117.

Item 6 Specify printing methods (e.g., flexographic, web-offset, packaging rotogravure, etc.). If not one of the six listed, check "other" and specify the type.

Item 7 Provide the installation date (month/day/year) or date of last modification, whichever is later, for this equipment. Please see instruction booklet for the definition of "modification". If this is a new source, indicate that it is new.

Item 8 Specify normal operating schedule in hours per day, days per week, and days per year.

Item 9 Describe any oven curing for this printing operation. Specify dryer fuels and dryer maximum heat input in million BTU per hour; also specify the number of ovens directly associated with this process line.

Item 10a Include all inks, fountain solutions, blanket washes (manual or automatic), clean-up and other solvents used in this operation or projected for use in the future under alternative operating scenarios. Please do not forget to complete and attach Form(s) 4530-126, one for each material that emits hazardous air pollutants, for this printing operation. Printing operations that use large numbers of materials that emit hazardous air pollutants may submit a summary of hazardous emissions, as described in the instructions for Item 5 of Form 4530-126.

Item 10b Specify the maximum amount of inks or solvent used in gallons per hour and per year. These projections should be consistent with the assumptions used to project the "maximum theoretical emissions" from this emissions unit, that is, reasonable assumptions about the maximum operating level of the emissions unit.

Item 10c Specify the normal usage of inks and solvents in gallons per year.

Items 10d Specify the composition of inks, fountain solutions, etc. in weight or volume percent, as applied. For each ink, fountain solution, etc. specify
-10f the weight or volume percent (for flexographic, packaging rotogravure, or publication rotogravure operations) of d) solids, e) VOCs (Volatile Organic Compounds), and f) water, in the appropriate column. Include exempt solvents as water in column h (see Note 1 below).

Item 10g Specify the density of each ink or VOC in pounds per gallon. This information is necessary for the calculation of VOC content at column 10h (see below).

Item 10h For screen printing sources only, specify the VOC content of the ink in pounds per gallon less water (and exempt solvents), as applied. See instructions booklet for examples of this calculation.

: Exempt solvents are those identified in the definition of VOC as having negligible photochemical reactivity. Methylene chloride and methyl chloroform (1,1,1-trichloroethane) are the two most commonly used exempt solvents in printing operations.

: The VOC content of the ink and other composition information may be available from your ink supplier.

Please do not forget to complete Form 4530-118, DESCRIPTION OF METHODS USED TO DEMONSTRATE COMPLIANCE.

☐ If the ink contains no water or exempt solvents,

$$\text{item 10h} = \text{item 10e} / 100 \times \text{item 10g}$$

(use weight percent for item 10e and coating density for item 10g).

☐ If the ink does contain water and/or exempt solvents,

$$\text{item 10h} = \text{item 10e} \times \text{item 10g} / [\text{item 10d} + \text{item 10e}]$$

(use volume percent for items d and e, and VOC density for item 10g).

PAINTING AND COATING OPERATIONS -- Form 4530-108
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 significant painting or coating operation.

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 an identification number for the stack exhausting this painting or coating operation (e.g. S10, S20, etc.). The same stack identification number should appear on all appropriate forms used in conjunction with this operation. If there is more than one stack exhausting this unit, please attach Form 4530-135 (Supplemental Information) to further describe the situation. Use the same number used on Form 4530-103.

Item 4 Assign a process number for this painting or coating operation (Process P30, Process P25, etc.). This number will be used as the identification number for this operation. Use the existing identification number from the Air Emissions Inventory. This number should also appear on the other appropriate forms for this painting or coating operation: forms for control system, compliance determination, and stack identification.

Item 4a Provide the manufacturer's name and equipment's model number. Also specify dryer manufacturer and model number. Specify the products and substrate to be coated or painted. In addition, specify the maximum process weight rates for this operation in pounds per hour (maximum process weight is the maximum weight of coating and products per hour).

Item 5 Specify the type of control device used to reduce emissions from this operation. If the operation is uncontrolled, check "uncontrolled". Provide the identification number (e.g., C30, C40) of the control device. The same number should also appear on Form(s) 4530-110, 111, 112, 113, 114, 115, 116, or 117 and all other forms completed for this control device.

Item 6 Specify the application technique for this operation (e.g. spraying, roll coating, etc.). Specify the transfer efficiency for this operation. Transfer efficiency is the portion of coating solids which adheres to the surface being coated during the application process, expressed as a percentage of the total volume or weight of coating solids delivered to the application.

Item 7 Provide the installation date (month/day/year) or date of last modification, whichever is later, for this equipment. Please see instructions booklet for the definition of "modification". Provide the month and date if possible (write in "00" if unknown (e.g., 00/00/56)). Indicate if this is a new source.

Item 8 Specify normal operating schedule in hours per day, days per week, and days per year.

Item 9 Specify the number of ovens, their fuels, and their maximum heat input in million BTU per hour.

Item 10 Include all paints, coatings, and clean-up solvents used in this operation or projected for use in the future under alternative operating scenarios. Please do not forget to complete and attach Form(s) 4530-126, one for each material that emits hazardous air pollutants, for this painting or coating operation. Painting or coating operations that use large numbers of materials that emit hazardous air pollutants may submit a summary of hazardous emissions, as described in the instructions for Item 5 of Form 4530-126.

Item 10a Provide the names or identifying numbers of the paints, coatings, and clean-up solvents.

Item 10b Specify the coating category (i.e., "ct cg" on the form) by writing the appropriate number: (1) air dried, (2) clear, (3) cured, (4) extreme performance, or (5) other. A coating is considered cured if the coated object is heated in excess of 194 °F. Extreme performance coatings are those designed for harsh exposure to one or more of the following: the weather all the time, temperatures consistently above 203 °F (95 °C), detergents, abrasive and scouring agents, solvents, corrosive atmospheres, or similar environmental conditions.

Item 10c Specify the temperature of the coated material as it leaves the oven, in degrees F.

Item 10d Specify the maximum amount of coating or solvent used in gallons per hour and per year. These projections should be consistent with the assumptions used to project the "maximum theoretical emissions" from this emissions unit, that is, reasonable assumptions about the maximum operating level of the unit.

Item 10e Specify the normal usage of coatings and solvents in gallons per year.

Items 10f - 10h Specify the composition of coatings in weight percent, as applied. For each coating, specify the weight or volume percentage of f) solids, g) VOC, and h) water, in the appropriate column. Include exempt solvents as water in column h (see Note 1 below).

Item 10i Specify the density of each coating or VOC in pounds per gallon. This information is necessary for the calculation of VOC content at column 10j (see below).

Item 10j Specify the VOC content of the coating in pounds per gallon less water (and exempt solvents), as applied. See the instructions booklet for examples of this calculation.

: Exempt solvents are those identified in the definition of VOC as having negligible photochemical reactivity. Methylene chloride and methyl chloroform (1,1,1-trichloroethane) are the most commonly used exempt solvents in coating operations.

: The VOC content of the coating and other composition information may be available from your coating supplier.

Please do not forget to complete Form 4530-118, DESCRIPTION OF METHODS USED TO DEMONSTRATE COMPLIANCE.

Case 1.

□ If the coating contains no water or exempt solvents,

$$\text{item 10j} = \text{item 10g} / 100 \times \text{item 10i}$$

(use weight percent for item 10g and coating density for item 10i).

Case 2.

□ If the coating does contain water and/or exempt solvents,

$$\text{item 10j} = \text{item 10i} \times \text{item 10g} / [\text{item 10f} + \text{item 10g}]$$

(use volume percent for items 10f and 10g, and VOC density for item 10i)

MISCELLANEOUS PROCESSES -- Form 4530-109

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Complete one form for each significant miscellaneous process.

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 this process. Use the same number used on form 4530-103.

Item 4 Assign an identification number to this process (e.g., P21). Use the existing identification number from the Air Emissions Inventory. Use this number on other forms related to this operation.

Item 4a Provide a brief description of this unit. List the manufacturer and model number.

Item 5 If this process is controlled, assign a control device number (e.g., C30) to the air pollution control device associated with it. Use this number on the appropriate form(s) 4530-110 through -117.

Item 6 The Source Classification Code is an eight-digit number used by the EPA to estimate emissions from specific types of industrial processes. This number is listed on the Air Emission Inventory for each individual process and fuel. If you do not know the number, the Department will fill this in.

Item 7 Record the date of installation or last modification of the emissions unit. Provide the month and date if possible. Write in "00" if unknown (e.g., 00/00/56). Indicate if this is a new source.

Item 8 Provide the normal operating schedule.

Item 9 Briefly describe the process, including types of operations involved, end product of the process and use of the product. Attach a flow diagram of the process, identifying major pieces of equipment; pickup points for dusts, fumes and vapors; control and collection devices; exhaust stack and vents; where raw materials enter the process; and where finished products exit. Indicate if the process is batch or continuous. Use form 4530-135 for additional information, and mark the box "attached."

Item 10 List all of the materials put into the process and the average and maximum amounts used (in pounds per hour or tons per hour). This is the process weight rate. List any solvents, additives, cleaners, etc. (in gallons per hour or per year) used with this process. If the process produces more than one product, include a list of the raw materials used to produce each product. Describe any storage and materials handling processes. If the process has no "raw materials" per se, write "NA" or "-" in each field across the first line of item 10.

Item 11 List the types of finished products and the average and maximum amounts produced. Describe any storage and material handling processes. If the process has no "finished products" per se, write "NA" or "-" in each field across the first line of item 11.

Item 12 List all of the fuels that the process uses or is capable of using. Provide the average and maximum amount of fuel used per hour of operation of the process. Provide the maximum heat input capacity for the fuel burner for the process. Provide an analysis of the fuel used, including at a minimum heat content, sulfur content and density. Coal, residual (#5 and #6) oils, sludge, waste oils, refuse derived fuels, etc., will require the submittal of an analysis of hazardous contaminants. Please attach these analyses to this form.

If the process uses no process fuels, write "none" under "type of fuel" and "NA" or "-" in the remaining fields of the first line of item 12.

Item 13 Briefly describe the fugitive sources. Include size of storage piles, material stored, length of roads, and any control measures used. Attach detailed information as appropriate. If you've used this form to describe a source of fugitive emissions, write "see above."

CONTROL EQUIPMENT - MISCELLANEOUS -- Form 4530-110
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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 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 Describe the device in detail giving enough information for the reviewer to clearly understand how the device controls air pollution. Attach any calculation. Attach a blueprint or diagram that shows all equipment parts necessary for successful operation and any monitoring equipment provided. 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.

CONTROL EQUIPMENT - CONDENSERS -- Form 4530-111
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 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 Describe the device in detail. For contact condensers, discuss type of spray nozzle and the mist elimination system or the number of baffles. If this is a surface condenser, discuss whether it is cross, concurrent, or countercurrent, the type of extended surface tubes, etc. Provide calculations. Attach a blueprint or diagram which clearly shows all equipment parts necessary for successful operation. Manufacturer's literature may be used. Attach extra information on form 4530-135.
- Item 9 For each pollutant controlled, enter the inlet pollutant concentration, hood capture efficiency, outlet pollutant concentration, and the overall efficiency of the control device for each pollutant emitted. Data entered in this table **MUST BE DOCUMENTED**, either by stack test or manufacturer-supplied guarantees or by other means approved by the Department. Please indicate (by checking the box) that this information is attached to this form. If you cannot complete this table or fail to provide sufficient documentation, you will have to fill out section B of this form or your permit application will be considered incomplete.
- 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 Indicate the average specific heat of the coolant over the operating temperature range of the device.
- Item 13 Give the pressure drop range across the coolant (in actual pounds per square inch).
- Item 14 Indicate the mass flow rate of coolant through the device (in pounds per hour).
- Item 15 Indicate the operating inlet temperature and outlet temperature of the coolant (in degrees F).
- Item 16 Indicate the substance to be used as the coolant.
- Item 17 Give the mass flow rate of the vapor through the device (in pounds per hour). Ideal gas law may be assumed to apply.
- Item 18 Indicate the specific heat of the vapor over the operating temperature range of the device.

Item 19 Indicate the operating inlet temperature and outlet temperature of the vapor (in degrees F).

Item 20 Indicate the heat transfer area of the device (in square feet). Show all calculations.

Item 21 Indicate the overall heat transfer coefficient. Show all calculations.

CONTROL EQUIPMENT - ADSORBERS -- Form 4530-112
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 from the air pollution sources to be covered by the permit.

- Item 1 Provide the name of the facility.
- Item 2 Provide facility identification (FID) number that appears on the annual emissions inventory reports.
- Item 3 Provide the identification number of the stack exhausting this device. Use the same number used on Form 4530-103.
- Item 4 Provide the identification number from the appropriate source Form 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 equipment such as 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 Describe the device in detail indicating whether it uses a fixed, moving or fluidized bed, if it involves multiple beds, if solvent is recycled (for fluidized beds), and any other relevant information. Also include calculations and design parameters used to determine adsorber type and size. Attach a blueprint or diagram of the device which clearly shows all equipment parts necessary for successful operation. Manufacturer's literature may be used. (Attach extra sheets if needed; Form 4530-135 may be used for this purpose.)
- Item 9 For each pollutant controlled, enter the inlet pollutant concentration, hood capture efficiency, outlet pollutant concentration, and the overall efficiency of the control device for each pollutant emitted. Data entered in this table **MUST BE DOCUMENTED**, either by stack test or manufacturer supplied guarantees or by other means approved by the Department. Please indicate (by checking the box) that this information is attached to this form. If you cannot complete this table or fail to provide sufficient documentation, you will have to fill out section B of this form or your permit application will be considered incomplete.
- Item 10 Indicate the volumetric gas flow rate in actual cubic feet per minute.
- Item 11 Give the gas temperature at the inlet in degrees fahrenheit.
- Item 12 Give the operating temperature range of the bed in degrees fahrenheit.
- Item 13 Discuss the fate of the collected material how it will be contained, transported, and its ultimate destination for disposal. Examples of ultimate disposal include the local wastewater treatment plant or landfill. Describe any waste recycling or reuse.
- Item 14 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 14 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 15 Describe any gas pretreatment methods, such as heating, cooling, or passing gas through a dust collection device prior to adsorption.
- Item 16 Give the breakthrough capacity in pounds of vapor per pound of adsorbent. This is the capacity of the bed at which unreacted vapors begin to be exhausted.
- Item 17 Describe the composition of the inlet gas stream. Give the partial pressures of each component.
- Item 18 Describe the chemical composition of the bed material. Include manufacturer's literature if available.
- Item 19 Give the void volume of the bed in cubic feet. This is the empty space between the bed particles.
- Item 20 Give the dimensions of the adsorber bed, either length, width, and height, or bed depth and radius, in feet. If only the bed volume is available, the bed depth must also be indicated. This is the dimension parallel to the gas flow.
- Item 21 Give the porosity of the bed particles. This is the percent of the total particle volume that is pore space.
- Item 22 Indicate the maximum gas velocity through the device in feet per minute.

Item 23 Indicate your plan for disposal of spent bed material and/or your method and schedule of bed regeneration.

CONTROL EQUIPMENT - CATALYTIC OR THERMAL OXIDATION -- Form 4530-113
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 complete description of the oxidation system including the type of burner, burner arrangements, type of fan, construction materials, type of heat recovery system if used, and other relevant information. Attach a blueprint or diagram of the device which clearly shows all equipment parts, including the heat recovery system, necessary for successful operation. 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 Check the appropriate box indicating if this is a catalytic or a thermal oxidation system.
- Item 11 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 12 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 12 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.

Note: If your oxidation system is catalytic, answer only column a. If it is thermal, answer only column b.

- Item 13 a. Indicate the maximum and minimum temperatures in the catalyst bed (in degrees F).
b. Give the maximum and the minimum operating temperatures for the combustion chamber of the incinerator.
- Item 14 Give the volume of the catalyst bed or combustion chamber (in feet³).
- Item 15 a. Indicate the volumetric flow rate of the gas at the temperature and pressure under which combustion occurs.
b. Indicate the maximum gas velocity through the device at the temperature and pressure under which combustion occurs.
- Item 16 List the type of fuel (if any) that will be used in the catalytic or thermal oxidation system. If none, write "none". Indicate sulfur content for non-gaseous fuels.
- Item 17 Give the maximum hourly rate of fuel consumption for this unit (in Btu/hr).
- Item 18 Give the type of substance used as a catalyst and the volume used (in feet³).
- Item 19 Indicate the gas residence time. This is generally equal to the volume of the combustion chamber divided by the gas volumetric flow rate at combustion conditions.

CONTROL EQUIPMENT - CYCLONE/SETTLING CHAMBERS -- Form 4530-114
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. If you are using more than one settling chamber in parallel, you must answer items 10 and 13 - 18 for each individual chamber. Use form 4530-135 for this purpose.

- 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 Describe the device indicating whether it is a cyclone, multicyclone, or a gravity settling chamber. Include information on the inlet (whether top, axial, or bottom), type of entry (tangential, helical, etc.), the dust discharge system, hopper design, type of gas outlet, and any other relevant information. Attach a blueprint or diagram of the device which clearly shows all equipment parts necessary for successful operation. 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 Give the pressure drop across the device (in inches of water).
- Item 11 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 12 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 12 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 13 For cyclones, give the following dimensions for your cyclone: D_c = body diameter, L_c = body length, Z_c = cone length, D_a = exit tube diameter, S_c = length of exit tube in cyclone, H_c = inlet height, and B_c = inlet width. These dimensions can be used to verify efficiency claims. For gravity settling chambers, give the length L , the height H , and the width B , of the device. For cyclones of alternative design, provide a diagram labeling the dimensions of analogous parts.
- Item 14 Give the gas flow rate at the inlet of the device (in actual cubic feet per minute).
- Item 15 Give the velocity of the gas at the inlet (in feet per second).
- Item 16 Give the average temperature of the inlet gas stream (in degrees F).
- Item 17 Provide the mean particle diameter (in feet) of the dust this device is expected to collect. You can calculate it from experimental data or obtain it from the literature. Attach calculations or documentation.
- Item 18 Give the density of the particles (in pounds per cubic foot) this device is expected to collect. You can calculate it from experimental data or obtain it from the literature. Attach calculations or documentation.

Item 19 Give the number of turns for the cyclone. (This is an important design variable and should be part of the manufacturer's literature.) Show documentation. For gravity settling chambers, give the number of parallel chambers.

CONTROL EQUIPMENT - ELECTROSTATIC PRECIPITATOR -- Form 4530-115
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 Describe the device indicating if it is single-stage, two-stage, or tubular, etc. Discuss the method of gas flow distribution, and any other relevant information. Attach a blueprint or diagram of the device that clearly shows all equipment parts necessary for successful operation. 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 Give the primary and secondary operating voltage, current, and spark rate of each field.
- Item 12 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 12 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 13 Give the length L, width W, and height H, of each field (in feet). The width is the distance between the collection plates. For tubular precipitators, give the diameter D and the length L of the tube.
- Item 14 Provide the particle migration velocity (in feet per second). You can obtain this from manufacturer's specifications or calculate it mathematically. Show all calculations or document specifications.
- Item 15 Give the effective collecting plate area of the precipitator (in square feet). This is the sum of the areas of all plate surfaces where particles are collected.
- Item 16 Indicate the number of fields in the ESP. This is the number of individual sections installed in the device. Each field has a separate power supply and controls to adjust for varying gas conditions.
- Item 17 If inlet gas is treated to control conductivity, describe the pretreatment process.
- Item 18 List the number of transformer-rectifier sets and their ratings (in Kilovolts and milliamperes or in kVA).
- Item 19 If this is a wet precipitator, give the inlet liquid flow rate (in gallons per minute).
- Item 20 Give the exhaust gas flow rate (in actual cubic feet of gas per second).

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).

CONTROL EQUIPMENT - BAGHOUSE/FABRIC FILTERS -- Form 4530-117
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 Describe the filtering system, including any relevant design information. Attach a blueprint or diagram of the device that clearly shows all equipment parts necessary for successful operation. 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 Give the pressure drop across the device (in inches of water).
- Item 12 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 12 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 13 Give the filter medium or the type of fabric used for the bags.
- Item 14 Give the maximum inlet flow rate of the gas (in actual cubic feet per minute).
- Item 15 Indicate the maximum temperature of the inlet gas (in degrees F).
- Item 16 For baghouses, indicate the number of bags in your device. Leave this section blank if using filters.
- Item 17 Give the diameter D and length L of each bag, or the length L and height H of each filter.
- Item 18 Air to cloth ratio is the ratio of the total area of the filtering media to the gas filtered.

COMPLIANCE CERTIFICATION - MONITORING AND REPORTING
DESCRIPTION OF METHODS USED FOR DETERMINING COMPLIANCE -- Form 4530-118
AIR POLLUTION CONTROL PERMIT APPLICATION INSTRUCTIONS

NOTE: All operation permit applications must include this form except initial applications for existing, non-Part 70 sources and initial applications for new or modified sources for which no construction permit is required. Completion of this form (when it applies) is mandatory. The Department will not consider or act upon your application unless you complete and submit this application form (when it applies to you). It is not the Department's intention to use any personally identifiable information from this form for any other purpose.

One form should be completed for each significant emissions unit being monitored.

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 of the stack that is associated with the process being monitored. Use the same number used on form 4530-103.

Item 4 Provide the identification number from the appropriate form 4530-104, -105, -106, -107, -108, or -109 completed for the emissions unit that will have its emissions monitored.

Item 5 Choose the type(s) of monitoring you want to use to demonstrate compliance with the emission limits for this emissions unit. Complete and attach the form(s) associated with the monitoring method(s) you select. Any of the methods listed on the form may be used for more than one pollutant. Identify each pollutant to be monitored by each monitoring technique.

Item 6 For the emissions unit identified at Item 4 above, specify the start dates and schedules of the compliance *certification* reports and the compliance *monitoring* reports to be submitted to the Department during the term of the permit.

The compliance *certification* reports must be submitted to the Department no less frequently than once per year. Please note that these reports may need to be submitted more than once a year if specified by the underlying applicable requirement or otherwise specified by the Department. The certification reports must include the following information:

- Identification of each permit term or condition that is the basis of the compliance certification
- The compliance status of this particular emissions unit with respect to each permit term or condition
- Information on whether compliance was continuous or intermittent
- The methods used for determining the compliance status of the emissions unit, currently and over the previous 12-month period
- Any other information the Department may require, as specified in the operation permit, to determine the compliance status of this particular emissions unit

The compliance *monitoring* reports, which include the results of monitoring required by the permit, must be submitted to the Department no less frequently than once every six months. Please note that these reports may need to be submitted more than twice a year if specified by the underlying applicable requirement or otherwise specified by the Department. A summary of the monitoring results may be submitted to the Department. The summary must include sufficient data for the Department to determine whether this particular emissions unit is in compliance with the applicable requirements to which the monitoring relates. The semi-annual monitoring results report may be consolidated with the quarterly excess emissions report required under section NR 439.09, Wis. Adm. Code.

For non-Part 70 sources, the Department will consider a less frequent than semi-annual submittal of the monitoring results report.

***** Please note that all deviations from and violations of applicable requirements must be clearly identified in the monitoring results reports. *****

COMPLIANCE DEMONSTRATION BY CONTINUOUS EMISSION MONITORING -- Form 4530-119
AIR POLLUTION CONTROL PERMIT APPLICATION INSTRUCTIONS

NOTE: All operation permit applications must include this form except initial applications for existing, non-Part 70 sources and initial applications for new or modified sources for which no construction permit is required. Completion of this form (when it applies) is mandatory. The Department will not consider or act upon your application unless you complete and submit this application form (when it applies to you). 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 significant emissions unit being monitored. Acid rain sources must complete items 5, 6, and 7. Other sources may complete either item 6 or item 7, as appropriate to the source's emission limit.

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 of the stack that exhausts this equipment. 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 that will have its emissions monitored.

Item 5 Identify the pollutants being monitored for this emissions unit. Use one form for each pollutant. Pollutants may include SO₂, NO_x, opacity, etc. See instructions below for 5a -i.

Item 6 Identify diluents being monitored for this emissions unit. This information is not required for opacity CEMs. See instructions below for 6a - i.

Item 7 Provide the stack gas flow (in dry standard cubic feet). This information is not required for opacity CEMs. See instructions below for 7a - i.

Items 5-7a - i.

Fill out the following information for items 5, 6 and 7:

- a. List the name of the monitor manufacturer.
- b. List the model number of the monitor.
- c. Indicate if this monitor has been previously used for demonstrating compliance for this emissions unit, by checking the appropriate box.
- d. Give the date the monitor was installed. If this is a new monitor, list the date it will be installed.
- e. Indicate the type of monitor. If "other," give the type.
- f. Describe how the monitor works. Form 4530-135 may be attached for this purpose.
- g. Describe how emission data will be collected if the monitor fails.
- h. The CEM system must be certified. You must submit this certification to the Department with this permit application. If the CEM system is not certified at the time of application, please submit the certification within 60 days following the startup of the CEM system. If the certification has already been submitted to DNR, it is not necessary to submit it again. Please indicate the approximate date of submittal.
- i. You must submit a CEM system Quality Assurance/Quality Control (QA/QC) Plan with this permit application. If the QA/QC plan is not submitted with the application, please submit the QA/QC plan within 60 days following the startup of the CEM system. If the plan has already been submitted to DNR, it is not necessary to submit it again. Please indicate the approximate date of submittal.

COMPLIANCE DEMONSTRATION BY PERIODIC EMISSION MONITORING
USING PORTABLE MONITORS -- Form 4530-120 **AIR POLLUTION CONTROL PERMIT APPLICATION**
INSTRUCTIONS

NOTE: All operation permit applications must include this form except initial applications for existing, non-Part 70 sources and initial applications for new or modified sources for which no construction permit is required. Completion of this form (when it applies) is mandatory. The Department will not consider or act upon your application unless you complete and submit this application form (when it applies to you). 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 significant emissions unit being monitored.

- 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 of the stack that exhausts this equipment. 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 that will have its emissions monitored.
- Item 5 Identify the pollutant(s) or diluent(s) being monitored for this emissions unit.
- Item 6 List the name of the monitor manufacturer.
- Item 7 List the model number of the monitor.
- Item 8 Indicate if this monitor has been previously used for demonstrating compliance for this emissions unit, by checking the appropriate box.
- Item 9 Give the date the monitor was installed. If this is a new monitor, list the date it will be installed.
- Item 10 Indicate the type of monitor. If "other," give the type.
- Item 11 Describe how the monitor works. Form 4530-135 may be attached for this purpose.
- Item 12 Describe how emission data will be collected if the monitor fails.
- Item 13 Indicate the frequency with which compliance will be demonstrated. Form 4530-118 may be used to provide additional explanation.
- Item 14 *Note: The information requested in Item 14 is optional for your application. Whatever information you choose to submit for Item 14 that is acceptable to the Department will be incorporated into any permit issued by the Department. If you do not complete Item 14 the Department will write these elements of the compliance demonstration program into the permit.*

The portable monitor system should be certified as to its precision and relative accuracy. Please submit this certification to the Department with this permit application. If the system is not certified at the time of application, please submit the certification within 60 days following the startup of the system. If the certification has already been submitted to DNR, it is not necessary to submit it again. Please indicate the approximate date of submittal.

You should submit a portable monitor system Quality Assurance/Quality Control (QA/QC) Plan with this permit application. If the QA/QC plan is not submitted with the application, please submit the QA/QC plan within 60 days following the startup of the system. If the plan has already been submitted to DNR, it is not necessary to submit it again. Please indicate the approximate date of submittal.

***** You must report any excess emissions on a regular basis. *****
Please refer to the Department's compliance program guidance for further details.

**COMPLIANCE DEMONSTRATION BY MONITORING CONTROL SYSTEM
PARAMETERS OR OPERATING PARAMETERS OF A PROCESS -- Form 4530-121 AIR POLLUTION
CONTROL PERMIT APPLICATION INSTRUCTIONS**

NOTE: All operation permit applications must include this form except initial applications for existing, non-Part 70 sources and initial applications for new or modified sources for which no construction permit is required. Completion of this form (when it applies) is mandatory. The Department will not consider or act upon your application unless you complete and submit this application form (when it applies to you). 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 significant emissions unit being monitored.

- 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 of the stack that exhausts this equipment. 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 that will have its emissions monitored.
- Item 5 Identify the pollutant(s) being monitored for this emissions unit.
- Item 6 List the name of the monitor manufacturer.
- Item 7 List the model number of the monitor.
- Item 8 Indicate if this monitor has been previously used for demonstrating compliance for this emissions unit, by checking the appropriate box.
- Item 9 Give the date the monitor was installed. If this is a new monitor, list the date it will be installed.
- Item 10 List all parameters used to characterize this device. Typical design parameters are pressure drop, operating temperature, pressure, volume of device, volumetric flow rate of dirty gas, etc. Indicate the operating range of all parameters and the units (psia, °F, ft³, ACFM, etc.). Show any calculations.

Describe how the parameter is being measured. Form 4530-135 may be used to provide this explanation. For example, you could indicate that an average value for the parameter shall be determined and recorded every 15 minutes.

- Item 11 Describe how parameter data will be collected if this method fails.
- Item 12 *Note: The information requested in Items 12 and 13 is optional for your application. Whatever information you choose to submit for Items 12 and 13 that is acceptable to the Department will be incorporated into any permit issued by the Department. If you do not complete Items 12 and 13 the Department will write these elements of the compliance demonstration program into the permit.*

You should submit a parameter monitoring system Quality Assurance/Quality Control (QA/QC) Plan with this permit application. If the QA/QC plan is not submitted with the application, please submit the QA/QC plan within 60 days following the startup of the system. If the plan has already been submitted to DNR, it is not necessary to submit it again. Please indicate the approximate date of submittal.

- Item 13 Provide the details of the proposed averaging period for defining excess emissions. Each parameter used to characterize the control system or process must have an appropriate (i.e., approved by the Department) averaging period. For example, you could indicate that any 3-hour rolling average outside of the normal 3"- 6" range of pressure drop across the baghouse shall be reported as an excess emission.

***** You must report any excess emissions on a regular basis. *****
Please refer to the Department's compliance program guidance for further details.

**COMPLIANCE DEMONSTRATION BY MONITORING
MAINTENANCE PROCEDURES -- Form 4530-122**

AIR POLLUTION CONTROL PERMIT APPLICATION INSTRUCTIONS

NOTE: All operation permit applications must include this form except initial applications for existing, non-Part 70 sources and initial applications for new or modified sources for which no construction permit is required. Completion of this form (when it applies) is mandatory. The Department will not consider or act upon your application unless you complete and submit this application form (when it applies to you). 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 significant emissions unit being monitored.

- 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 of the stack that exhausts this equipment. 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 that will have its emissions monitored.
- Item 5 Identify the pollutant(s) being monitored for this emissions unit.
- Item 6 Name the maintenance procedure being monitored. Use form 4530-135 for additional explanation.
- Item 7 Indicate if this procedure has been previously used for demonstrating compliance for this emissions unit, by checking the appropriate box.
- Item 8 Give the date the monitor began. If this is a new procedure, list the date it will be started.
- Item 9 Describe how the maintenance procedure is being monitored. This description can be, for example, a discussion of plant activities prescribed for proper maintenance of process equipment or air pollution control equipment.
- Item 10 Indicate the frequency with which compliance will be demonstrated. Form 4530-118 may be used to provide additional explanation. The frequency with which the maintenance procedure is performed is related to the compliance status. If the maintenance procedure is performed daily, then the compliance status is certified daily.
- Item 11 *Note: The information requested in Item 11 is optional for your application. Whatever information you choose to submit for Item 11 that is acceptable to the Department will be incorporated into any permit issued by the Department. If you do not complete Item 11 the Department will write these elements of the compliance demonstration program into the permit.*

You should submit a maintenance procedure monitoring program Quality Assurance/Quality Control (QA/QC) Plan with this permit application. If the QA/QC plan is not submitted with the application, please submit the QA/QC plan within 60 days following the startup of the program. If the plan has already been submitted to DNR, it is not necessary to submit it again. Please indicate the approximate date of submittal.

The proposed maintenance procedure monitoring program should also define excess emissions. For example, excess emissions may be defined in terms of whether the required maintenance is actually performed. That is, if the required maintenance procedures are not performed, a period of excess emissions results.

***** You must report any excess emissions on a regular basis. *****
Please refer to the Department's compliance program guidance for further details.

COMPLIANCE DEMONSTRATION BY STACK TESTING -- Form 4530-123
AIR POLLUTION CONTROL PERMIT APPLICATION INSTRUCTIONS

NOTE: All operation permit applications must include this form except initial applications for existing, non-Part 70 sources and initial applications for new or modified sources for which no construction permit is required. Completion of this form (when it applies) is mandatory. The Department will not consider or act upon your application unless you complete and submit this application form (when it applies to you). 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 significant emissions unit being monitored.

- 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 of the stack that exhausts this equipment. 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 that will have its emissions monitored.
- Item 5 Identify the pollutant being monitored for this emissions unit.
- Item 6 List the procedure being monitored. If you plan to use stack testing to periodically verify the accuracy of some other method you are using to continuously demonstrate compliance, then the "other method" is the procedure being monitored by the stack testing program. Form 4530-135 may be used for additional explanation.
- Item 7 Indicate if this method has been previously used for demonstrating compliance for this emissions unit, by checking the appropriate box.
- Item 8 Give the date the stack testing program was started. If this is a new method, list the date the stack testing program will be started. A stack testing program starts on the date the Department approves a proposed program of appropriately frequent stack testing for compliance demonstration.
- Item 9 Identify the EPA- or Department-approved stack test method being used.
- Item 10 Describe how emissions data will be collected if the source fails to perform the stack testing.
- Item 11 Indicate the frequency with which compliance will be demonstrated. Form 4530-118 may be used to provide additional explanation. The frequency with which the stack test procedure is performed is related to the compliance status. If the stack test procedure is performed daily, then the compliance status is certified daily, and so on. There are EPA audit samples available for Methods 3, 3A, 6, 7, 11, 15, 18, 23, 25, 26, 101, 101A, 0030, 0010, 0012 and many gases.

***** You must report any excess emissions on a regular basis. *****
Please refer to the Department's compliance program guidance for further details.

COMPLIANCE DEMONSTRATION BY FUEL SAMPLING AND ANALYSIS -- Form 4530-124
AIR POLLUTION CONTROL PERMIT APPLICATION INSTRUCTIONS

NOTE: All operation permit applications must include this form except initial applications for existing, non-Part 70 sources and initial applications for new or modified sources for which no construction permit is required. Completion of this form (when it applies) is mandatory. The Department will not consider or act upon your application unless you complete and submit this application form (when it applies to you). 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 significant emissions unit being monitored.

- 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 of the stack that exhausts this equipment. 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 that will have its emissions monitored.
- Item 5 Identify the pollutant being monitored for this emissions unit.
- Item 6 List the fuel being sampled.
- Item 7 Briefly describe how the system works. List the American Society of Testing and Materials (ASTM) methods used. If you use methods or procedures that have been approved by the Department as being equivalent to the applicable ASTM method(s), or if you are proposing an equivalent method or procedure, please attach a brief explanation of the basis for equivalency. Form 4530-135 may be used for this purpose.
- Item 8 Indicate if this method has been previously used for demonstrating compliance for this emissions unit, by checking the appropriate box.
- Item 9 Give the date the system was installed. If this is a new system, list the date it will be installed.
- Item 10 Indicate the type of monitor.
- Item 11 Describe how emission data will be collected if the source fails to do fuel sampling.
- Item 12 Indicate the frequency with which compliance will be demonstrated. Form 4530-118 may be used to provide additional explanation. The frequency with which the procedure is performed is related to the compliance status. If the procedure is performed daily, then the compliance status is certified daily, and so on.
- Item 13 *Note: The information requested in Item 13 is optional for your application. Whatever information you choose to submit for Item 13 that is acceptable to the Department will be incorporated into any permit issued by the Department. If you do not complete Item 13 the Department will write these elements of the compliance demonstration program into the permit.*

The fuel sampling and analysis (FSA) system should be certified as to its precision and relative accuracy. Please submit this certification to the Department with this permit application. If the FSA system is not certified at the time of application, please submit the certification within 60 days following the startup of the FSA system. If the certification has already been submitted to DNR, it is not necessary to submit it again. Please indicate the approximate date of submittal.

You should submit a fuel sampling and analysis (FSA) system Quality Assurance/Quality Control (QA/QC) Plan with this permit application. If the QA/QC plan is not submitted with the application, please submit the QA/QC plan within 60 days following the startup of the system. If the plan has already been submitted to DNR, it is not necessary to submit it again. Please indicate the approximate date of submittal.

***** You must report any excess emissions on a regular basis. *****
Please refer to the Department's compliance program guidance for further details.

COMPLIANCE DEMONSTRATION BY RECORDKEEPING -- Form 4530-125

AIR POLLUTION CONTROL PERMIT APPLICATION INSTRUCTIONS

NOTE: All operation permit applications must include this form except initial applications for existing, non-Part 70 sources and initial applications for new or modified sources for which no construction permit is required. Completion of this form (when it applies) is mandatory. The Department will not consider or act upon your application unless you complete and submit this application form (when it applies to you). 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 significant emissions unit being monitored.

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 of the stack that exhausts this equipment. 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 that will have its emissions monitored.

Item 5 Identify the pollutant(s) being monitored for this emissions unit.

Item 6 List the materials to be monitored and recorded, including inks, coatings, raw materials, etc. Parameters to monitor and record include temperature, fuel usage, pressure drop, etc.

Item 7 Describe how the methods of monitoring and recording work. Such methods may include the type of thermocouple, type of pressure gauge, recording device, etc.

Item 8 List any EPA methods used such as methods 24, 24A, or 21.

Item 9 Indicate if this method has been previously used for demonstrating compliance for this emissions unit, by checking the appropriate box.

Item 10 Give the date the recordkeeping system was started. If this is a new system, list the date it will be started.

Item 11 Describe how emission data will be collected if the source fails to do recordkeeping.

Item 12 Indicate the frequency with which compliance will be demonstrated. Form 4530-118 may be used to provide additional explanation. The frequency with which the procedure is performed is related to the compliance status. If the procedure is performed daily, then the compliance status is certified daily, and so on.

Item 13 *Note: The information requested in Item 13 is optional for your application. Whatever information you choose to submit for Item 13 that is acceptable to the Department will be incorporated into any permit issued by the Department. If you do not complete Item 13 the Department will write these elements of the compliance demonstration program into the permit.*

You should submit a recordkeeping program Quality Assurance/Quality Control (QA/QC) Plan with this permit application. If the QA/QC plan is not submitted with the application, please submit the QA/QC plan within 60 days following the startup of the program. If the plan has already been submitted to DNR, it is not necessary to submit it again. Please indicate the approximate date of submittal.

The proposed recordkeeping program should also define excess emissions. For example, excess emissions may be defined in terms of whether the required records suggest that emissions from the source have exceeded an emission limit. The duration of the period of (presumed) excess emissions would then relate to the nature of the records.

The applicant may submit proposed formats for the compliance certification and excess emission reports along with the operation permit application. The formats for the compliance certification report and the excess emission report shall ultimately be approved (or disapproved) by the Department.

***** You must report any excess emissions on a regular basis. *****
Please refer to the Department's compliance program guidance for further details.

EMISSION UNIT HAZARDOUS AIR POLLUTANT SUMMARY -- Form 4530-126
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.

Use one form for each of up to ten materials that release hazardous air emissions from the source. Facilities using ten or more materials that release hazardous air contaminants may use this form to summarize the hazardous air emissions from the unit, as described below. Materials include fuels, inks, coatings, solvents, additives, cleaning solvents, process raw materials and weld rods. Hazardous air contaminants are defined under chapter NR 445, Wis. Adm. Code, and sec. 112, 1990 Clean Air Act Amendments (42 U.S.C. 7412).

Each emissions unit at the facility will have a group of forms 4530-126 (one for each of a small number of materials involved) or a single Form 4530-126 which summarizes the information requested under item 6 of this form for large numbers of materials involved, for that emissions unit. Documentation of all emissions from all materials must be attached to this form for verification purposes. Examples of this reporting are included in the instruction booklet.

- 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 of the stack that exhausts this equipment. Use the same number used on form 4530-103.
- Item 4 Provide the source identification number. The source number should be consistent with Form 4530-104, -105, -106, -107, -108, or -109 as appropriate.
- Item 5 Identify each material that is associated with the source identified in item 4 which emits hazardous air pollution (for example, a boiler which fires coal, natural gas, or co-fires coal and gas should list three materials: coal, gas, and coal/gas). Facilities using more than 10 materials that release hazardous air contaminants may submit the required information in tabular format for each source. Describe the source(s) of information about the material (e.g., Material Safety Data Sheet). Form 4530-135 may be used for this purpose.
- Item 6 List all hazardous air pollutants released from this material. Use the CAS (Chemical Abstract System) number for each pollutant. If no CAS number has been assigned to a pollutant, write the name of the pollutant.

Estimate the actual emissions and maximum theoretical emissions for each hazardous air contaminant released from this material at this source. For each pollutant, use the same units found on Form 4530-132 to describe the threshold value (i.e., pounds per hour or pounds per year, depending on the hazardous air pollutant). Also estimate the potential to emit, in tons per year, for each hazardous air contaminant released from this material at this source. If you are claiming an exemption or other compliance demonstration, cite the appropriate regulation. **Attach your calculations and an explanation of any exemptions you claim.** For volatile pollutants, you may want to use Equation G (see below) as a guide.

Estimate each hazardous air contaminant's potential to emit (in tons per year) and **attach your calculations.** You may want to use the equations shown below as a guide. Indicate the units (i.e., TPY). These annual emissions are those "emitted" after pollution control equipment. For outdoor emissions (e.g. burn pits, storage tanks) that do not have pollution control equipment, use a "release efficiency" of 100% for the "capture efficiency". Indoor emissions that do not have pollution control equipment and are not directly vented outside (i.e. fugitive indoor emissions) would report an amount generated and no stack emissions. Form 4530-135 may be used to report these fugitive emissions.

EQUATIONS FOR USE WITH **FORM 4530-126, ITEM 6**

Equation A: Emissions after controls
 (potential to emit) emitted (after controls) amount of pollutant (before) = amount generated (before) * $\frac{\text{capture efficiency}}{100\%}$ * (1 - $\frac{\text{removal eff.}}{100\%}$)

Equation B: Emissions from fuel combustion
 (based on stack test data) amount generated (before, lb/hr) = emissions based on stack test data * $\frac{\text{maximum heat input (BTU/hr)}}{\text{heat input during test (BTU/hr)}}$

Equation C: Emissions from fuel combustion
 (based on emission factors) amount generated (before) = emission factor (before) * maximum heat input (or fuel use rate)

Equation D: Emissions from coating activities
 (for volatile pollutants) amount generated (before) = maximum coating use rate (lbs/hr) * $\frac{\text{pollutant/coating}}{100\%}$ * $\frac{\text{pollutant/coating}}{100\%}$

Equation E: Emissions from coating activities
 (for particulates) amount generated (before) = maximum coating use rate (lbs/hr) * $\frac{\text{pollutant/coating}}{100\%}$ * $\frac{\text{pollutant/coating}}{100\%}$ * transfer (1 - $\frac{\text{efficiency}}{100\%}$)

Equation F: General emissions equation amount generated (before) = maximum process capacity * emission factor

Equation G: Potential to Emit
 (for volatile pollutants) maximum emissions (annual) = maximum material use (tons/yr) * $\frac{\text{pollutant/material}}{100\%}$ * $\frac{\text{capture efficiency}}{100\%}$ * removal (1 - $\frac{\text{eff.}}{100\%}$)

FACILITY HAZARDOUS AIR POLLUTANT SUMMARY -- Form 4530-127
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.

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 an emissions summary for all hazardous air emission sources at this facility:

- Indicate the hazardous air contaminant's corresponding Chemical Abstract System (CAS) number.
- Determine the total emissions at maximum capacity from all sources. These emissions should be the controlled emissions. Use the same units (i.e., pounds per hour, pounds per year, tons per year, etc.) for the hazardous air contaminants as used for the standard in chapter NR 445, Wis. Adm. Code, or section 112 of the 1990 Clean Air Act Amendments (42 U.S.C. 7412).

EMISSION UNIT SUMMARY -- Form 4530-128
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.

- 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 of the stack that exhausts this equipment. 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 that will have its emissions summarized on this form.
- Item 5 Provide the emission levels for each listed pollutant emitted from this source. The emissions should be presented using the same units as the applicable limits shown on Form 4530-130 and in tons per year (TPY). The list of footnotes found in the lower left corner of this form allows the applicant to specify the units of each reported emission level. To specify the appropriate units, write the appropriate footnote number in the columns headed by the letter "U".

For example: to indicate an emission rate of 3.2 lbs SO₂/MMBTU, write

Sulfur dioxide	3.2	2
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on the line for sulfur dioxide (SO₂).

Maximum theoretical emissions should represent emissions at full production capacity of the source before reduction by any pollution control equipment. This is normally 24 hours/day for 365 days/year or 8760 hours/year, although this calculation may account for certain operational constraints such as press down time or scheduled boiler maintenance outage. Please see subsection NR 400.02(53m) for the precise definition of "maximum theoretical emissions." You may want to use emission factors to determine these emissions.

Potential to emit should represent emissions at full production capacity of the source after reduction by any air pollution control equipment. This is normally 24 hours/day for 365 days/year (i.e., 8760 hours/year), although physical or operational limitations that are enforceable by the Administrator of EPA on the capacity of a source to emit air contaminants may be considered in determining potential to emit. Please see subsection NR 400.02(71) for the precise definition of "potential to emit." You may want to use emission factors to determine these emissions.

Maximum allowable emissions should represent the greatest amount of emissions allowed under any permit or applicable standards, taking into consideration the equipment limitations, such as line speed, and pollution control efficiencies of the equipment.

Please remember to:

- Report hazardous air pollutants on Forms 4530-126 and 4530-127.
- State the reference(s) for the calculations. Emission factors may be compiled in published documents, such as EPA's AP-42, or may be based on stack test results. A separate page of numbered references is appropriate and may be attached to form 4530-128. Form 4530-135 may be used for this purpose.

FACILITY EMISSIONS SUMMARY -- Form 4530-129
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.

- 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 emission levels in tons per year (TPY). For each pollutant emitted from the facility, sum the annual actual, maximum theoretical, potential to emit, and maximum allowable emission rates (tons per year only) reported for all of the facility's emission units (i.e., on Forms 4530-128). The totals for each pollutant should be reported on Form 4530-129 in tons per year (TPY).

***** Hazardous air pollutant emissions should be reported on Forms 4530-126 and 4530-127. *****

CURRENT EMISSIONS REQUIREMENTS AND STATUS OF UNIT -- Form 4530-130
AIR POLLUTION CONTROL PERMIT APPLICATION INSTRUCTIONS

NOTE: All operation permit applications must include this form except initial applications for existing, non-Part 70 sources and initial applications for new or modified sources for which no construction permit is required. Completion of this form (when it applies) is mandatory. The Department will not consider or act upon your application unless you complete and submit this application form (when it applies to you). 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 significant emissions unit.

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 of the stack that exhausts this equipment. 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 that will have its emissions summarized on this form.

Item 5 List all regulated emissions from this source. This includes total reduced sulfur, mercury, asbestos, beryllium, vinyl chloride and hazardous air pollutants regulated under ch. NR 445, Wis. Adm. Code, or sec. 112, Clean Air Act.

Item 6 List the appropriate citation(s) for the regulated emissions from this source. For your convenience, listed below are some (but not all) Administrative Code chapters which contain many of the citations you will need. The instruction booklet more completely describes the listings of rule citations. Several examples are included within these instructions. You may also want to consult citations found in your current permit.

Prevention of Significant Deterioration (PSD)	NR 405		
Standards of Performance for New Stationary Sources	NR 440		
Particulate Matter	NR 415	Sulfur Dioxide	NR 417, NR 418
Organic Compounds	NR 419-425	Carbon Monoxide	NR 426
Lead	NR 427	Nitrogen Oxides	NR 428
Visible Emissions	NR 431	Other	NR 417, NR 445-449

Item 7 Indicate if the requirement is "State only" by writing an asterisk (*) under the State only column. "State only" means that the requirement is enforceable by the State of Wisconsin, not the U.S. EPA.

Item 8 Provide the applicable emission limit (see instruction booklet).

Item 9 Write a brief statement (either "in" or "out") indicating the compliance status of this source with the applicable emission limit.

If an exemption is requested, cite the exemption authority and attach the appropriate information on Form 4530-135. Examples:

Virgin Fossil Fuel under s. NR 445.04[(1), (3) or (4)](c)

Good Combustion Technology for Wood under s. NR 445.05(3)(c) 6. :

The Furnace Exit Temperature is _____°F, based on

The Furnace Residence Time is _____ seconds, based on

The Furnace Exit Carbon Monoxide Concentration (corrected to 7% O₂) is _____ ppm_{dv}, based on

The monitoring and recordkeeping shall include

Item 10 List any other requirements that are applicable to this source. Such requirements include existing permit requirements, such as biennial stack testing, restrictions on plant operation, total solvent usage, and so on. All requirements from existing permits must be included somewhere on Form 4530-130. Indicate whether these requirements are "State only" and state the compliance status. List any reporting activities required by permit, order, statute or rule regarding compliance at this source that are not addressed elsewhere in this application. General permit conditions, shown as Part II on existing permits, will be listed on Form 4530-132A.

List activities that are known to be subject to new requirements during the term of the proposed permit. Consider new requirements on

emissions, monitoring, recordkeeping, testing or test methods and reporting (e.g. MACT standard to be developed for this source by November 1997).

If you wish this particular unit's level of operation to be restricted to assist the plant as a whole to become a synthetic minor source, Item 10 is the place for you to propose the special operating conditions necessary to accomplish this goal.

EMISSION UNIT COMPLIANCE PLAN
COMMITMENTS AND SCHEDULE -- Form 4530-131
AIR POLLUTION CONTROL PERMIT APPLICATION INSTRUCTIONS

NOTE: All operation permit applications must include this form except initial applications for existing, non-Part 70 sources and initial applications for new or modified sources for which no construction permit is required. Completion of this form (when it applies) is mandatory. The Department will not consider or act upon your application unless you complete and submit this application form (when it applies to you). It is not the Department's intention to use any personally identifiable information from this form for any other purpose.

Completion of this form for each emissions unit establishes that unit's compliance status. Referenced documents (e.g., stack test reports) should be enclosed or on file at the Department of Natural Resources.

- 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 of the stack that exhausts this equipment. 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 that will have its compliance certified on this form.
- Item 5 Part 70 source permit applications must include the two statements shown in Item 5. Mark each box to formally commit to maintaining compliance for the duration of the permit.
- Item 6 For each applicable requirement identified on Form 4530-130 with which the emissions unit is presently not in compliance, briefly describe how compliance will be achieved. Include the equipment or operational changes necessary to come into compliance. Refer to orders, judgments, approved plans or other documents that establish or more fully describe how applicable requirements will be met. Form 4530-135 may be used to provide additional explanation.

If you discover that this emissions unit should have (but did not) receive a permit from the Department when it was constructed, you should state on the form that the emissions unit did not receive a permit and then indicate that the present application constitutes the overdue new (or modified) source permit application for the particular emissions unit. The deadline dates in such a case are the date of the present application and some anticipated date of permit issuance (described as such on Form 4530-135 or other attached explanation).

Summarize the schedule of measures leading to compliance with all requirements. Include remedial measures and deadlines for milestone events (e.g. contract award date, start dates for construction or installation, completion of operator training). Reference any orders, decrees or other judgments that establish or more fully describe the compliance schedule.

Summarize the schedule for submission of progress reports. Refer to appropriate documents that establish or more fully describe the submission schedule. The start date for these progress reports must be no later than 6 months following the date of this permit application.

CURRENT EMISSIONS REQUIREMENTS AND STATUS OF FACILITY -- Form 4530-132
AIR POLLUTION CONTROL PERMIT APPLICATION INSTRUCTIONS

NOTE: All operation permit applications must include this form except initial applications for existing, non-Part 70 sources and initial applications for new or modified sources for which no construction permit is required. Completion of this form (when it applies) is mandatory. The Department will not consider or act upon your application unless you complete and submit this application form (when it applies to you). It is not the Department's intention to use any personally identifiable information from this form for any other purpose.

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 List all emissions regulated on a plant-wide basis from this source. This includes primarily hazardous air pollutants regulated under ch. NR 445, Wis. Adm. Code, or sec. 112, Clean Air Act.

Item 4 List the appropriate citation(s) for the regulated emissions from this source. For your convenience, listed below are some (but not all) Administrative Code chapters which contain many of the citations you will need. The instruction booklet more completely describes the listings of rule citations. Several examples are included within these instructions. You may also want to consult citations found in your current permit.

Item 5 Indicate if the requirement is "State only" by writing an asterisk (*) under the State only column. "State only" means that the requirement is enforceable by the State of Wisconsin, not the U.S. EPA.

Item 6 Provide the applicable threshold value listed in chapter NR 445, Wis. Adm. Code for the hazardous air contaminants significantly emitted from your facility (see instructions booklet).

Item 7 Provide a brief statement (either "in" or "out") indicating the compliance status of this source with the applicable emission limit.

If an exemption is requested, cite the exemption authority and attach the appropriate information on Form 4530-135. Examples:

Virgin Fossil Fuel under s. NR 445.04[(1), (3) or (4)](c)

Good Combustion Technology for Wood under s. NR 445.05(3)(c) 6. :

The Furnace Exit Temperature is ___°F, based on

The Furnace Residence Time is ___ seconds, based on

The Furnace Exit Carbon Monoxide Concentration (corrected to 7% O₂) is ___ ppm_{dv}, based on.....

The monitoring and recordkeeping shall include

Item 8 (Note: Until EPA promulgates the final regulations for prevention of accidental releases, the information requested here is not required to be included with the permit application.)

If you want to plan for the future, refer to section 112(r)(7), Prevention of Accidental Releases, in the Clean Air Act for the provisions which may pertain to this stack. The permit application instruction booklet includes the proposed list of compounds to be specifically regulated under the accidental release program.

Item 9 List any other facility-wide requirements that are applicable to this source. Such requirements include existing permit requirements, such as restrictions on plant operation, total solvent usage, and so on. All requirements from existing permits relating to the plant as a whole must be included somewhere on Form 4530-132. Indicate whether these requirements are "State only" and state the compliance status. List any reporting activities required by permit, order, statute or rule regarding compliance at this source that are not addressed elsewhere in this application. General permit conditions, shown as Part II on existing permits, will be listed on Form 4530-132A.

List activities that are known to be subject to new requirements during the term of the proposed permit. Consider new requirements on emissions, monitoring, recordkeeping, testing or test methods and reporting (e.g. MACT standard to be developed for this source by November 1997).

If you wish your plant to become a synthetic minor source, Item 9 is the place for you to propose the special plant-wide operating conditions necessary to accomplish this goal. A source which is potentially a major source may be able to receive a permit from DNR with federally-enforceable restrictions on operation to "create" a minor source by permit. These restrictions may include limitations on raw material throughputs and emission unit operating hours so as to restrict the level of operation of the emission units at the source so that

annual emissions from the plant remain below the major source threshold. Since these operating restrictions do not appear in DNR's rules, it is up to the applicant to propose such special operating conditions.

If you want to propose that special operating conditions apply only to a particular emissions unit at your plant, Item 10 on Form 4530-130 is available for this purpose.

FACILITY REQUIREMENT COMPLIANCE PLAN
COMMITMENTS AND SCHEDULE -- Form 4530-133
AIR POLLUTION CONTROL PERMIT APPLICATION INSTRUCTIONS

Note: All operation permit applications must include this form except initial applications for existing, non-Part 70 sources and initial applications for new or modified sources for which no construction permit is required. Completion of this form (when it applies) is mandatory. The Department will not consider or act upon your application unless you complete and submit this application form (when it applies to you). It is not the Department's intention to use any personally identifiable information from this form for any other purpose.

Completion of this form establishes the facility's compliance status. Referenced documents (e.g., stack test reports) should be enclosed or on file at the Department of Natural Resources.

Items 1 and 2 Provide the facility name and identification (FID) number from the Department's Emissions Inventory.

Item 3 Check each box to fulfill the requirement to make these commitments at the time of permit application.

Item 4 Check the box to fulfill the requirement to make these commitments at the time of permit application. For each applicable requirement with which the facility is not in compliance identified on Form 4530-132, briefly describe how compliance will be achieved. Include the equipment or operational changes necessary to come into compliance. Refer to orders, judgments, approved plans or other documents that establish or more fully describe how applicable requirements will be met. Form 4530-135 may be used to provide additional explanation.

Summarize the schedule of measures leading to compliance with all requirements. Include remedial measures and deadlines for milestone events (e.g. contract award date, start dates for construction or installation, completion of operator training). Reference any orders, decrees or other judgments that establish or more fully describe the compliance schedule.

Summarize the schedule for submission of progress reports. Refer to appropriate documents that establish or more fully describe the submission schedule. The start date for these progress reports must be no later than 6 months following the date of this permit application.

PERMIT REVISION OR RENEWAL - Form 4530-136

AIR POLLUTION CONTROL PERMIT REVISION APPLICATION INSTRUCTIONS

NOTE: Use of this form is required by the Department for any air pollution control operation revision permit application filed pursuant to ch. NR 407, Wis. Adm. Code. 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.

One form should be included with each permit revision application or any renewal application for which changes to existing permit conditions are proposed.

- Item 1 Provide full business name, facility identification number and address of corporation, company, association, society, firm, partnership, individual or political subdivision of the state submitting the application.
- Item 2 Enter new parent corporation or facility name and/or mailing address information if those changes are all that is being requested under this revision. If both are being requested, indicate which one is being changed in that area and include the other name and/or address to be changed under Item 6.
- Item 3 Indicate the type of permit revision you are applying for. Please use the following to guide your selection:

Administrative revisions are regulated under s. NR 407.11, Wis. Adm. Code, and include the following: (a) correction of a typographical error, (b) a change in name, address or telephone number of any person identified in the permit, or a similar administrative change at the stationary source, unrelated to emissions; (c) more frequent monitoring, record keeping or reporting by the permittee; or (d) a change in ownership or operational control of a stationary source if the department determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the Department.

Minor revisions are regulated under s. NR 407.12, Wis. Adm. Code. In order to be considered a minor revision the proposed change must meet the following criteria: (a) exempt from Department review under chs. NR 405, 406 and 408; (b) does not violate any applicable requirement; (c) does not involve significant changes to existing monitoring, reporting or record keeping requirements in the permit; (d) does not require or change a source-specific determination of an emission limitation or a source specific limitation based on ambient air impacts or a visibility or ambient air increment analysis; and (e) does not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and which the source has accepted in its permit in order to avoid an applicable requirement to which it would otherwise be subject.

Significant revisions are regulated under s. NR 407.13, Wis. Adm. Code. A significant revision is a revision which can not be accomplished by an administrative or minor revision.

- Item 4 Include your facility identification number.
- Item 5 Identify the permit number(s) of the permit(s) to be revised. If you have active construction permits that will also be affected by the revision (as in the case of a change of ownership), list them here.
- Item 6 Describe the proposed change in detail. Attach additional sheets of paper if necessary. Describe the effect on emissions and applicable requirements as a result of the change. Include all calculations with your permit revision application.

Item 7 If you are a Part 70 source and this is a significant revision to your Part 70 permit or you are requesting changes to your permit conditions for your renewal application, check the applicable box under B.