

SEE INSTRUCTIONS ON REVERSE SIDE

1. Facility name:	2. Facility identification number:
3. Stack identification number:	4. Boiler/furnace number:

4a. Unit description:

5. Indicate the boiler/furnace control technology status.      Uncontrolled      Controlled

If the boiler/furnace is controlled, enter the control device number(s) from the appropriate forms:

4530-110 \_\_\_     4530-111 \_\_\_     4530-112 \_\_\_     4530-113 \_\_\_  
 4530-114 \_\_\_     4530-115 \_\_\_     4530-116 \_\_\_     4530-117 \_\_\_

6. Furnace type:	7. Maximum continuous rating:     mmBTU/hr
8. Manufacturer:	9. Model number:

10. Date of construction or last modification:

11. Fuels and firing conditions:

	Primary fuel	Backup fuel #1	Backup fuel #2	Backup fuel #3
Fuel name				
Higher heating value				
Maximum sulfur content (Wt.%)				
Maximum ash content (Wt.%)				
Excess Combustion Air (%O <sub>2</sub> )				
Moisture content (as fired) (%)				
Maximum hourly consumption				
Actual yearly consumption				

\*\*\*\*\* For this emissions unit, identify the method of compliance demonstration by completing Form 4530-118, \*\*\*\*\*  
 DESCRIPTION OF METHODS USED FOR DETERMINING COMPLIANCE. Attach Form 4530-118  
 and its attachment(s) to this form. This is not a requirement of non-Part 70 sources.

\*\*\*\*\* Please complete the Air Pollution Control Permit Application Forms 4530-126 and 4530-128 for this Unit. \*\*\*\*\*

**BOILER OR FURNACE OPERATION -- Form 4530-104**  
**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 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 (O<sub>2</sub>) in the flue gas, if known, typically observed during the firing of each fuel listed in the table. If flue gas O<sub>2</sub> 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.