



ATTN: Application Log in
 AIR QUALITY BUREAU
 7900 Hickman Rd., Suite 1
 Windsor Heights, IA 50324

AIR CONSTRUCTION PERMIT APPLICATION

Form EU5: Boiler Information

Please see instruction on reverse side

Company Name: _____

BOILER (EMISSION UNIT) DESCRIPTION AND SPECIFICATIONS

New Unit **Unpermitted Existing Unit** **Modification to an unit with Permit #:**

(1) Boiler ID Number:	(2) Rated Capacity (MMBTU/hr heat input):	
(3) Construction Date:	(4) Manufacturer:	(5) Model:
(6) Date of Modification (if applicable):	(7) Serial Number (if available):	(8) Control Device (if any):

FUEL DESCRIPTION AND SPECIFICATIONS

(9) Fuel Type	<input type="checkbox"/> Natural Gas	<input type="checkbox"/> Fuel Oil (#)	<input type="checkbox"/> Wood	<input type="checkbox"/> Coal	<input type="checkbox"/> Other Fuels
(10) Full Load Consumption Rate	(cf/hr)	(gal/hr)	(lb/hr)	(lb/hr)	(units:)
(11) Sulfur Content wt%	N/A		N/A		
(12) For Coal Boilers: What type of coal will be used? <input type="checkbox"/> Bituminous <input type="checkbox"/> Sub-bituminous <input type="checkbox"/> Lignite					

For All Solid Fuels, An Ultimate and Proximate Analyses Must be Submitted with This Application Form.

OPERATING LIMITS & SCHEDULE

(13) Requested Operating Limits (hours/year, or quantity of fuel/year, etc.):

(14) Operating Schedule (hours/day, months/year, etc.):

STACK/VENT (EMISSION POINT) SPECIFICATIONS

(15) Stack/Vent ID:	(16) Stack Opening Size: <input type="checkbox"/> circular, diameter (inches) is:
(17) Stack Height (feet) from the Ground:	<input type="checkbox"/> other, size (inches x inches) is:
(18) Stack Height (feet) above the Building (If Applicable):	(19) Discharge Style: <input type="checkbox"/> V (Vertical, without rain cap or with unobstructing rain cap) <input type="checkbox"/> VR (Vertical, with obstructing rain cap)
(20) Distance (feet) from the Property Line:	<input type="checkbox"/> H (Horizontal discharge) <input type="checkbox"/> D (Downward discharge; for example, a goose neck stack)

EXHAUST INFORMATION

(21) Rated Flow Rate (<input type="checkbox"/> acfm <input type="checkbox"/> scfm):	(22) Moisture Content % (if known):	(23) Exit Temperature (°F)
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Instructions for Form EU5: Boiler Information

According to 567 Iowa Administrative Code Chapter 22.1(2)a, an indirect fired combustion source that uses only Natural Gas or LPG and has a heating capacity of less than 10 MMBTU/hr is exempted from the provisions of construction permits.

According to 567 Iowa Administrative Code Chapter 22.1(2)b, an indirect fired combustion source that uses coal, fuel oil or untreated wood, seeds, pellets, other vegetable matter and has a heating capacity of less than 1 MMBTU/hr is exempted from the provisions of construction permits.

Please put your company name in the box provided. This is useful in case any pages of the application are separated.

Boiler Description and Specification:

1. Provide the Boiler identification number. Each Boiler in the application must have its own number. If boilers involved in this permit application are not identical, fill out a separate EU-5 form for each boiler. If the boilers are identical, attach a separate sheet labeled EU-2A listing them by ID number and date of construction or modification. The ID number should match the ID numbers used on other construction permit applications and within this application. It can be any number. **However, if you submitted an operating permit application, the numbers used for identification purposes in this application should be consistent with the ID numbers used in your operating permit application.**
2. The rated capacity should be read from the boiler's nameplate or from the manufacturer's literature.
3. The date of construction of the emission unit is the date, month, and year in which construction is anticipated to begin or did begin as defined in EU Form Instruction item 7. If this is a boiler that was moved from another site, also indicate the date of original construction.
4. Provide the name of the manufacturer of the emission unit.
5. Provide the model number of the boiler. This number should be available from the nameplate of the boiler.
6. If the boiler has been or will be modified, give the date, month and year of the most recent or future modification.
7. Provide the manufacturer's serial number for this boiler, if available.
8. Provide the control device name and number if a control device attached to this emission unit. The name and number of the control device should be consistent with Form CS and throughout the application.

Fuel Description and Specifications:

9. Indicate the fuel type used by the boiler. If fuel oil is used, you need to indicate the ranking number. If the boiler uses multiple fuels, please check the appropriate fuel type boxes in this row.
10. The full-load consumption rate is the fuel consumption rate at the boiler's rated capacity.
11. Provide the weight percentage of the sulfur content in the fuel.
12. If you will be burning coal, identify the type of coal to be burned.

If you intend to burn a solid fuel in this boiler, provide an ultimate and a proximate analysis representative of the fuel you intend to burn.

Operation Limits:

13. If any, indicate the operating limits you imposed to this unit in the units of operating hours per year, or gallons fuel per hour, tons per year, etc.
14. Indicate your operation schedule for the projected maximum operation of the boiler.

Stack/Vent Information:

15. Provide the identification number(s) of the emission point(s). **An emission point is the same as a stack or vent.**
16. Indicate by checking a box whether the stack or vent opening is circular or other shape and write in the dimensions of the opening.
17. Provide the height of the top of the emission point(s) above ground. If the boiler has non-identical multiple stacks attach a sheet that indicates the heights and the information requested in (18) -(20) for each stack.
18. Provide the height of the top of the emission point(s) above the highest building, if applicable.
19. Indicate by checking a box what the discharge style is.
20. Provide the distance between the boiler stack and the nearest property line.

Exhaust Information:

21. Indicate the rated exhaust flow rate in actual or standard cubic feet.
22. Provide the moisture content, in percent, of the exhaust gas, if known. If unknown, leave blank.
23. Provide the temperature of the exhaust at the emission point in degrees Fahrenheit.