

STATE OF ILLINOIS
 ENVIRONMENTAL PROTECTION AGENCY
 BUREAU OF AIR
 2520 WEST ILES AVENUE
 SPRINGFIELD, ILLINOIS 62704

Page ____ of ____

| |
|--|
| <p>* DATA AND INFORMATION</p> <p>FUEL COMBUSTION EMISSION SOURCE</p> |
|--|

* THIS INFORMATION FORM IS TO BE COMPLETED FOR A FURNACE, BOILER, OR SIMILAR EQUIPMENT USED FOR THE PRIMARY PURPOSE OF PRODUCING HEAT OR POWER BY INDIRECT HEAT TRANSFER. AN EMISSION SOURCE THAT DOES NOT FIT THIS DESCRIPTION, INCLUDING AND EMISSION SOURCE USING DIRECT HEATING, IS EITHER A PROCESS EMISSION SOURCE OR AN INCINERATOR.

| | |
|---------------------------------------|---|
| 1. NAME OF PLANT OWNER: | 2. NAME OF CORPORATE DIVISION OR PLANT (IF DIFFERENT FROM OWNER): |
| 3. STREET ADDRESS OF EMISSION SOURCE: | 4. CITY OF EMISSION SOURCE: |

| GENERAL INFORMATION | | |
|--|--|-------------------|
| 5. FLOW DIAGRAM DESIGNATION(S) OF EMISSION SOURCE: | | |
| 6. MANUFACTURER: | 7. MODEL NUMBER: | 8. SERIAL NUMBER: |
| 9. AVERAGE OPERATING TIME OF EMISSION SOURCE: _____ HRS/DAY _____ DAYS/WK _____ WKS/YR | 10. MAXIMUM OPERATING TIME OF EMISSION SOURCE: _____ HRS/DAY _____ DAYS/WK _____ WKS/YR | |
| 11. PERCENT OF ANNUAL HEAT INPUT: DEC-FEB _____% MAR-MAY _____% JUN-AUG _____% SEPT-NOV _____% | | |

| INSTRUCTIONS |
|---|
| <ol style="list-style-type: none"> 1. COMPLETE THE ABOVE IDENTIFICATION AND GENERAL INFORMATION SECTION. 2. COMPLETE THE APPROPRIATE FUEL SECTION OR SECTIONS. IF MORE THAN ONE FUEL IS FIRED OR IF THE CAPABILITY EXISTS TO FIRE MORE THAN ONE FUEL, THE ACTUAL USAGE OF FUELS AND THE RELATIONSHIP BETWEEN FUELS, SIMULTANEOUS FIRING, ALTERNATE FIRING, RESERVE FUEL, ETC., MUST BE MADE CLEAR. 3. EMISSION AND EXHAUST POINT INFORMATION MUST BE COMPLETED, UNLESS EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT. 4. FIRING RATES AND CERTAIN OTHER ITEMS REQUIRE BOTH <u>AVERAGE</u> AND <u>MAXIMUM</u> VALUES 5. FOR GENERAL INFORMATION REFER TO "GENERAL INSTRUCTIONS FOR PERMIT APPLICATIONS," APC-201. |

| DEFINITIONS |
|---|
| <p>AVERAGE - THE VALUE THAT <u>SUMMARIZES OR REPRESENTS THE GENERAL CONDITION OF THE EMISSION SOURCE</u>, OR THE GENERAL STATE OF HEAT PRODUCTION OF THE EMISSION SOURCE. SPECIFICALLY: AVERAGE OPERATING TIME - ACTUAL TOTAL HOURS OF OPERATION FOR THE PRECEDING TWELVE MONTH PERIOD. AVERAGE RATE - ACTUAL TOTAL QUANTITY OF "MATERIAL" FOR THE PRECEDING TWELVE MONTH PERIOD, DIVIDED BY THE AVERAGE OPERATING TIME. AVERAGE OPERATION - OPERATION TYPICAL OF THE PRECEDING TWELVE MONTH PERIOD, AS REPRESENTED BY AVERAGE OPERATING TIME AND AVERAGE RATES.</p> <p>MAXIMUM - THE <u>GREATEST VALUE ATTAINABLE OR ATTAINED FOR THE EMISSION SOURCE</u>, OR THE PERIOD OF GREATEST OR UTMOST HEAT PRODUCTION OF THE EMISSION SOURCE. SPECIFICALLY: MAXIMUM OPERATING TIME - GREATEST EXPECTED TOTAL HOURS OF OPERATIONS FOR ANY TWELVE MONTH PERIOD. MAXIMUM RATE - GREATEST QUANTITY OF "MATERIAL" EXPECTED PER ANY ONE HOUR OF OPERATION. MAXIMUM OPERATION - GREATEST EXPECTED OPERATION, AS REPRESENTED BY MAXIMUM OPERATING TIME AND MAXIMUM RATES.</p> |

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

GAS FIRING

| | | | |
|---|--------|--------------------------|----------|
| *11. ORIGIN OF GAS: <input type="checkbox"/> DISTILLATE FUEL <input type="checkbox"/> OTHER LIQUID FUEL <input type="checkbox"/> SOLID FUEL <input type="checkbox"/> BYPRODUCT <input type="checkbox"/> PIPELINE OIL GASIFICATION GASIFICATION GASIFICATION SPECIFY SOURCE | | | |
| 12. ARE YOU ON AN INTERRUPTABLE GAS SUPPLY: <input type="checkbox"/> YES <input type="checkbox"/> NO IF "YES", SPECIFY ALTERNATE FUEL: | | | |
| 13. ANNUAL CONSUMPTION: | SCF | *14. HEAT CONTENT: | BTU/SCF |
| | | *15. SULFUR CONTENT: | % BY WT. |
| 16. AVERAGE FIRING RATE: | BTU/HR | 17. MAXIMUM FIRING RATE: | BTU/HR |

* IF THE GAS FIRED IS NATURAL GAS, THESE ITEMS NEED NOT BE COMPLETED.

OIL FIRING

| | | | |
|--|---------|--------------------------|---|
| 18. TYPE OF OIL: GRADE NUMBER: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 OTHER: SPECIFY | | | |
| 19. ANNUAL CONSUMPTION: | GALLONS | 20. HEAT CONTENT: | <input type="checkbox"/> BTU/LB <input type="checkbox"/> BTU/GAL |
| 21. SULFUR CONTENT: | % BY WT | 22. ASH CONTENT: | % BY WT |
| 23. DIRECTION OF FIRING: <input type="checkbox"/> HORIZONTAL <input type="checkbox"/> TANGENTIAL <input type="checkbox"/> OTHER: SPECIFY | | | |
| 24. AVERAGE FIRING RATE: | BTU/HR | 25. MAXIMUM FIRING RATE: | BTU/HR |

SOLID FUEL FIRING

| | | | |
|--|----------|------------------------------|----------|
| 26. TYPE OF SOLID FUEL <input type="checkbox"/> SUB-BITUMINOUS COAL <input type="checkbox"/> BITUMINOUS COAL <input type="checkbox"/> ANTHRACITE COAL <input type="checkbox"/> OTHER: SPECIFY | | | |
| 27. ANNUAL CONSUMPTION: | TONS | 28. HEAT CONTENT AS FIRED: | BTU/LB |
| 29. MOISTURE CONTENT AS FIRED: | % BY WT. | 30. ASH CONTENT AS FIRED: | % BY WT. |
| | | 31. SULFUR CONTENT AS FIRED: | % BY WT. |
| 32. TYPE OF FIRING: <input type="checkbox"/> CYCLONE <input type="checkbox"/> PULVERIZED { <input type="checkbox"/> WET BOTTOM OR <input type="checkbox"/> DRY BOTTOM, <input type="checkbox"/> HORIZONTALLY OPPOSED OR <input type="checkbox"/> OTHER: SPECIFY _____ <input type="checkbox"/> SPREADER STOKER: % REINJECTION _____ <input type="checkbox"/> OTHER: SPECIFY _____ | | | |
| 33. AVERAGE FIRING RATE: | BTU/HR | 34. MAXIMUM FIRING RATE: | BTU/HR |

SUBMIT COPIES OF THOSE PORTIONS OF COAL OR OTHER SOLID FUEL CONTRACTS WHICH SET FORTH THE SPECIFICATIONS OF THE FUEL AND THE DURATION OF THE CONTRACT. IF THE ACTUAL FUEL FIRED IS A BLEND OF SOLID FUELS, SUBMIT APPROPRIATE PORTIONS OF ALL FUEL CONTRACTS AND SET FORTH THE MANNER IN WHICH THE FUELS ARE BLENDED AND ACTUALLY FIRED. REFERENCE THIS INFORMATION TO THIS FORM.

*EMISSION INFORMATION

35. NUMBER OF IDENTICAL SOURCES (DESCRIBE AS REQUIRED):

AVERAGE OPERATION

| CONTAMINANT | CONCENTRATION OR EMISSION RATE PER IDENTICAL SOURCE | | METHOD USED TO DETERMINE CONCENTRATION OR EMISSION RATE | | |
|--------------------|---|-----------|---|---|----|
| PARTICULATE MATTER | 36a. | GR/SCF | b. | <input type="checkbox"/> LB/10 ⁶ BTU <input type="checkbox"/> LB/HR | c. |
| CARBON MONOXIDE | 37a. | PPM (VOL) | b. | <input type="checkbox"/> LB/10 ⁶ BTU <input type="checkbox"/> LB/HR | c. |
| NITROGEN OXIDES | 38a. | PPM (VOL) | b. | <input type="checkbox"/> LB/10 ⁶ BTU <input type="checkbox"/> LB/HR | c. |
| ORGANIC MATERIAL | 39a. | PPM (VOL) | b. | <input type="checkbox"/> LB/10 ⁶ BTU <input type="checkbox"/> LB/HR | c. |
| SULFUR DIOXIDE | 40a. | PPM (VOL) | b. | <input type="checkbox"/> LB/10 ⁶ BTU <input type="checkbox"/> LB/HR | c. |

MAXIMUM OPERATION

| CONTAMINANT | CONCENTRATION OR EMISSION RATE PER IDENTICAL SOURCE | | METHOD USED TO DETERMINE CONCENTRATION OR EMISSION RATE | | |
|--------------------|---|-----------|---|---|----|
| PARTICULATE MATTER | 41a. | GR/SCF | b. | <input type="checkbox"/> LB/10 ⁶ BTU <input type="checkbox"/> LB/HR | c. |
| CARBON MONOXIDE | 42a. | PPM (VOL) | b. | <input type="checkbox"/> LB/10 ⁶ BTU <input type="checkbox"/> LB/HR | c. |
| NITROGEN OXIDES | 43a. | PPM (VOL) | b. | <input type="checkbox"/> LB/10 ⁶ BTU <input type="checkbox"/> LB/HR | c. |
| ORGANIC MATERIAL | 44a. | PPM (VOL) | b. | <input type="checkbox"/> LB/10 ⁶ BTU <input type="checkbox"/> LB/HR | c. |
| SULFUR DIOXIDE | 45a. | PPM (VOL) | b. | <input type="checkbox"/> LB/10 ⁶ BTU <input type="checkbox"/> LB/HR | c. |

* IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT, OR IF NATURAL GAS IS THE FUEL FIRED, ITEMS 36 THROUGH 47 NEED NOT BE COMPLETED.

**EXHAUST POINT INFORMATION

46. FLOW DIAGRAM DESIGNATION(S) OF EXHAUST POINT:

47. DESCRIPTION OF EXHAUST POINT (LOCATION IN RELATION TO BUILDINGS, DIRECTION, HOODING, ETC.):

48. EXIT HEIGHT ABOVE GRADE:

50. EXIT DIAMETER:

49. GREATEST HEIGHT OF NEARBY BUILDINGS:

51. EXIT DISTANCE FROM NEAREST PLANT BOUNDARY:

FT

AVERAGE OPERATION

MAXIMUM OPERATION

52. EXIT GAS TEMPERATURE:

°F

54. EXIT GAS TEMPERATURE:

°F

53. GAS FLOW RATE THROUGH EACH EXIT:

ACFM

55. GAS FLOW RATE THROUGH EACH EXIT:

ACFM

** IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT THIS SECTION SHOULD NOT BE COMPLETED.