

SPECIFIC INSTRUCTIONS FOR COMPLETING FORM B3

COMPLETE ALL APPLICABLE QUESTIONS. ALL APPLICATIONS MUST BE TYPED OR PRINTED WITH A BALL-POINT PEN (PREFERABLY TYPED).

	<u>Question Number and Name</u>	<u>Specific Instructions</u>
1.	Name of Owner/Firm	Name of owner of source for which application is being prepared. For corporations, include division or subsidiary name, if any.
2-5.	Number and Street address, etc.	Mailing address of the owner or firm
6.	Name & Title of Owner's Representative	Employee of firm to be contacted regarding air pollution control at this facility and who is authorized by owner to act on his behalf.
7.	Telephone	Telephone number of owner's representative
8-13.	Name of Professional Engineer	Name, telephone number and mailing address of Professional Engineer authorized by owner to act as agent in filing application. A letter of authorization must be attached.
14-16.	Stamp/seal and License of P.E.	Stamp, seal and license number of P.E. preparing application.
17.	Signature of Professional Engineer, etc.	Signature and date of authorized P.E. must be affixed before application will be processed for a Permit to Construct.
18-21.	Facility Name, etc.	Name and address of facility where process is located.
22.	Building Name or Number	Building name or number of actual physical location of process unit.
23.	Start-up Date	If application is for a Permit to Construct, specify month and year construction is expected to be completed. If application is for a Certificate to Operate for an existing source, specify month and year operation began.
24.	Drawing Numbers of Plans Submitted	Specify the drawing numbers of the plans submitted with this application.
25.	Emission Point I.D. No.	Specify the number or letter assigned to the emission point through which the contaminants are emitted from the furnace (units). Each stack within a facility must be assigned a different number or letter not to exceed five digits. The stacks must also be numbered on the site plans and/or drawings submitted.

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|------|-------------------------|--|
| 26.  | Ground Elevation        | Elevation above mean level at the base of the stack to the nearest foot (e.g., 120 rather than 119.6). This information is available from USGS topography maps.                                      |
| 27.  | Height Above Structures | Height of the stack above the building or structure to the nearest foot (e.g., 39 rather than 38.7). If top of stack is below the building heights, it should be expressed as a negative number.     |
| 28.  | Stack Height            | Height of the stack measured from ground level to top of stack to the nearest foot (e.g., 62 rather than 62.3).  |
| 29.  | Inside Dimensions       | Inside diameter at the exit of stack expressed in inches to the nearest inch. For stacks of rectangular cross-section specify inside length and width in inches to the nearest inch (e.g., 40 x 20). |
| 30.  | Exit Temperature        | Stack gas exit temperature (°F).   |
| 31.  | Exit Velocity           | Stack gas exit velocity (ft./sec.).  |
| 32.  | Exit Flow Rate          | Stack gas exit flow water in cubic feet per minute at actual conditions.   |
| 34.. | Continuous Monitors     | If the main stack or branches to main stack will be equipped with continuous emission monitoring instruments, check those contaminants that will be measured.  |
| 35.  | Permit to Construct     | If applying for a Permit to Construct, check whether new source or modifications; leave blank if applying for a Certificate to Operate.  |
| 36.  | Certificate to Operate  | If applying for a Certificate to Operate, check whether new source, modification or existing source; leave blank if applying for a Certificate to Operate.   |

Answer all questions on form B3 only if a single furnace (unit) is vented to the emission point (stack).

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|------|-------------|--|
| 36A. | Refuse Feed | Use the code that describes how refuse is fed to furnace |
|      |             | 01 - Flue Fed  |
|      |             | 02 - Chute Fed   |
|      |             | 03 - Manual direct feed                                  |
|      |             | 04 - Automatic pneumatic fed, screw conveyor             |
|      |             | 09 - Other   |

37. Unit Type Specify the code that best represents the furnace types:  
01 - Single Chamber  
02 - Multiple Chamber, retort type  
03 - Multiple Chamber, in-line type  
09 - Other
39. ENCON ID # If this unit is listed as an "Incinerator Model Capable of Meeting State Emission Standards (form 76-11-29) enter the ID # opposite the model list for the capacity and type of refuse specified in this application and leave sections D, E and G Blank. If unit is not listed or the refuse or auxiliary equipment differs from the listed model, enter "none" and proceed to question 40.
40. Unit Manufacturer's Name and Mode I# Name of the manufacturer of the incinerator and the manufacturer's model number.
42. Primary Refuse Type Specify the code that best represents the refuse type burned: (refer to Article XIII Section 873.1301 of WSCS for clarification)  
0 - #0 type  
1 - #1 type  
2 - #2 type  
3 - #3 type  
4 - #4 type  
9 - Other
43. Type #5 Refuse Enter percent by weight of liquid or semi-liquid refuse that is or will be burned. This includes any liquid hazardous waste such as waste crankcase oil, spent solvents, etc that may be burned in combination with types 0-4 refuse.
44. Type #6 Refuse Enter percent by weight of liquid or semi-liquid refuse that is or will be burned other than type 0-4 refuse. This includes any sludge or solid hazardous wastes that may be burned in combination with types 0-4 refuse.
45. Radioactive Refuse Check whether or not refuse specified in question 42 contains any radioactive material.
46. Capacity Enter the design rate (lb/hr) at which refuse specified in question 42 can be charged to the incinerator.
47. Amount Refuse Charged Enter the actual rate (lb/hr) at which refuse specified in question 42 can be charged to the incinerator. An average rate is desirable, if available.
48. Hrs./Day Average number of hrs./day burner is or will be in operation.

49. Days/Year Average number of day/yr. burner is or will be in operation.
50. % Operation by Season Indicate the percentage of time burner is or will be operated by season. Total of four percentages listed must equal 100. Winter: January-March, Spring: April-June, etc.

51-59. If additional refuse type is burned, complete these questions. See instruction for questions 42-50.

60. Auxiliary Equipment Type Use code to indicate location of auxiliary equipment.  
1 - Burner in primary chamber  
2 - Burner in secondary chamber  
3 - Burner in tertiary chamber  
4 - Burner under hearth/grate  
9 - None
61. Total Number of Units Number of identical units of the type of auxiliary burner specified in question 60.
62. Auxiliary Equip. Manufacturer's Name Model Name of the manufacturer and model number of auxiliary burner used.
63. Temperature Actuated Check where or not the specified auxiliary burner is temperature actuated.
64. Rated Burner Capacity Rated capacity of auxiliary burner (BTU/hr)
65. Fuel Type Enter the code for the type of fuel burned or to be burned:  
32 - No. 2 fuel oil  
48 - Waste Oil  
52 - Natural gas  
60 - Manufactured gas  
72 - L.P. gas  
92 - Solvent waste  
93 - Toxic waste  
96 - Sludge  
99 - Other

66-71. If additional burner is installed in the incinerator, complete these questions. See instruction for questions 60-65.

72. Emission Control Equipment I.D. No. Number assigned to each emission control device being reported. Each emission control device connected to the same stack must be assigned a different number not to exceed two digits. Control equipment must be numbered on the plot plans and/or drawings submitted.

73. Control Type Enter the code to designate the type of emission control equipment used.

- 02 - Settling chamber
- 03 - Louver collector
- 04 - Baffle chamber
- 06 - Centrifugal collector (dry)
- 07 - Centrifugal collector (wet)
- 08 - Fabric collector
- 09 - Electrostatic precipitator
- 10 - thermal afterburner
- 11 - Spray Tower
- 12 - Impingement plate scrubber
- 13 - Venturi scrubber
- 14 - Catalytic Unit
- 98 - Other
- 99 - None

74. Manufacturer's Name and Model Number Specify name of manufacturer and model number of the control equipment specified in previous question.

75. Disposal Method Enter the code that describes the type of disposal used for collected air contaminants.

- 1 - Landfill - on-site
- 2 - Landfill - off-site
- 4 - Recycled on-site
- 7 - Public Sewer
- 8 - Private Sewer
- 9 - Other

76. Date Installed Actual or expected date of installation of control equipment (month and year).

77. Useful Life Expected years of useful life of emission control equipment.

This section is used to show calculations helpful in explaining answers to any of the questions on this application.

78-79. Contaminant Name and CAS Number This contaminant entry and its code number that represents all contaminants emitted by this incinerator.

80. Actual Emissions If application is for a Permit to Construct, enter the anticipated contaminant emissions based on stack tests performed on pilot or similar full scale installations, or reliable material balance.

81. Unit Enter the code to indicate the units in which the actual emissions in the previous question are presented:

- 1 - lb/hr
- 14 - lbs/100 lbs input (refuse charged)

82. How Determined Use the code to designate how the actual emissions are determined.
- 1 - Stack test of emissions from this incinerator
  - 2 - Stack test of emissions from the identical incinerator
  - 3 - Stack test of emissions from geometrically similar incinerator
  - 4 - Manufacturer's guarantee
  - 5 - Published emission factors
  - 6 - Fuel analysis or mass balance calculations
  - 7 - Continuous stack monitoring
  - 9 - Other
83. % Control Efficiency Enter actual efficiency of emission control equipment.
84. Actual Hourly Emissions Enter the actual hourly emissions in lbs./hr. based On normal daily operation of the incinerator.
85. Actual Annual Emissions Enter the actual annual emission in lbs./yr.
86.  $10^x$  Utilize the exponent of 10 to specify the correct magnitude. Enter the exponent (x) and indicate whether plus (+) and indicate whether plus (+) or minus (-). If the exponent is not needed, enter zero.

For other contaminants, complete questions in accordance with instructions for 78-86.

87. Solid Fuel Type Specify the code for the type of solid fuel burned:
- 01 – Anthracite coal
  - 04 – Bituminous coal
  - 29 - Coke
  - 80 - Wood
  - 98 - Toxic Waste
  - 99 - Other
88. Solid Fuel (Tons/yr) Average quantity of solid fuel burned in all incinerator units described in this application (tons/yr).
89. Solid Fuel (%S) % sulfur content by weight (%S)
90. Oil Type Enter code for the type of oil burned:
- 31 - #1 Oil – virgin
  - 32 - #2 Oil – virgin
  - 34 - #4 Oil – virgin
  - 35 - #5 Oil – virgin
  - 36 - #6 Oil – virgin
  - 48 – Waste Oil
  - 93 – solvent waste

98 – Toxic Waste  
49 - Oil – other

91. Oil (Thousands of Gal/Yr) Average quantity of oil burned in all incinerator units and emission control equipment described in this application (thousands of gal/yr).
92. Oil (%S) Percent sulfur content by weight for oil (%).
93. Gas Type Enter the code for type of gas burned:  
52 – Natural Gas  
72 – LPG  
79 - Gas (Other)
94. Gas (thousands of CF/Yr) Quantity of gas burned in all incinerator units and emission control equipment described in this application (thousands of CF/yr).
95. Gas (BTU/CF) Heating value of gas (BTU/CF)
- 96-97. Signature of Design Professional/Date Signature of owner's representative or authorized agent must be affixed when applying for a Certificate to Operate, or the application will not be processed. Leave blank when applying for a Permit to Construct. Enter date at time of signature.