

SPECIFIC INSTRUCTIONS FOR COMPLETING FORM B1 & FORM X

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

SECTION A (Items 1-24)

<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.
14-15. Stamp/seal and license of P.E.	License number and stamp/seal of P.E. preparing plans, etc. preparing application.
16-17. Signature of Professional Engineer, etc.	<u>Signature</u> of Professional Engineer and date of signature application <u>must be</u> 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	Specify the drawing numbers of the plans submitted with this application.

25. Emission Point I.D. No. Specify the number of letter assigned to the emission point through which the contaminants are emitted from the processes/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 plans and/or drawings submitted.
26. Ground Elevation Elevation above mean was 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 temperature (°F).
32. Exit Flow Rate Stack gas exit flow water in cubic feet per minute at actual conditions.

If more than one non-identical process or unit vents to the emission point specified in Section B, complete the appropriate number of FORM X (one for each non-identical process or unit). Should this be the case, leave questions 35-38 blank.

33. 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.
34. Certificate to Operate If applying for a Certificate to Operate, check whether new source, modification or existing source; leave blank if applying for a Permit to Construct.

35. % Operation by Season Indicate the percentage of time this process is or will be in operation by season. Total of four percentages listed must equal 100. Winter: January - March, Spring: April - June, etc.
36. Hours/Day Number of hrs./day this source is or will be in operation.
37. Days/Year Number of days/yr. this source is or will be in operations.

SECTION C

38. Describe Process or Unit Briefly describe the type of process or unit venting to the emission point specified in Section B.

SECTION D (Items 39-44)

Complete Section D only if a single process or unit is vented to the emission point (stack) or if the emission from all units vented to this emission point are directed to the same emission control equipment. Complete additional Form X for each process (unit) and leave this SECTION blank if emissions from each process (unit) are directed to separate emission control equipment.

39. 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.
40. 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 (dry)
- 07 - Centrifugal (wet)
- 08 - Fabric collector
- 09 - Electrostatic precipitator
- 10 - Thermal afterburner
- 11 - Spray tower
- 12 - Impingement plate scrubber
- 13 - Venturi scrubber
- 14 - Demister
- 15 - Packed tower
- 16 - Ejector condenser

- 17 - Activated bed adsorber
- 18 - Silica gel adsorber

- 19 - Catalytic unit
- 20 - Vapor condenser
- 21 - Control for VOC storage & transfer
- 23 - Absolute filter
- 98 - Other
- 99 - None

41. Manufacturer's Name and Model Number Specify name of manufacturer and model number of the control equipment specified in previous question.
42. Disposal Method Specify method of disposal of collected contaminants by entering code:
- 1 - Landfill - on-site
 - 2 - Landfill - off-site
 - 3 - Recycled in the process
 - 4 - Recycled on-site
 - 6 - Sold
 - 7 - Public sewer
 - 8 - Private sewer
 - 9 - Other, explain in process description
43. Date Installed Actual or expected date of installation of control equipment (month and year).
44. Useful Life Expected years of useful life of emission control equipment.

SECTION F (Items 45-55)

If more than one process or unit vents to the emission point specified in Section B, complete the appropriate number of Form X (one for each non-identical process or unit,) before completing this section. This section is used to summarize the total air contaminants emitted through the emission point specified in Section B.

45. Contaminant Name Specify the air contaminants emitted by complete name.
46. CAS Number Specify the contaminant Chemical Abstract Series Number.
47. Actual Emissions If application is for a Permit to Construct, enter the anticipated emissions in units prescribed below, by Part number, based on stack tests performed on pilot or similar full scale installations or reliable material balance.
48. Unit Enter the code to indicate the units in which the actual emissions in the previous question are presented:
- 1 - lbs./hr.

- 2 - lbs./hr. x 10⁻³
- 3 - lbs./hr. x 10⁻⁶
- 4 - lbs./day
- 5 - lbs./1000 lbs. (input)
- 6 - (lbs./1000 lbs.) x 10⁻³
- 9 - lbs./gallon
- 10 - lbs./ton
- 11 - lbs./million Btu
- 12 - lbs./mw-hr
- 13 - tons/hr.
- 14 - lbs./100 lbs. input (refuse charged)
- 20 - grains/DSCF
- 21 - grains/100 DSCF
- 30 - gallons
- 31 - gallons/hr.
- 32 - gallons/day
- 33 - gallons/year
- 40 - micro curies/j.
- 41 - 10 micro curies/ml
- 42 - 10⁻⁶ micro curies/ml
- 43 - 10 micro curies/ml (pico curies/ml)
- 44 - 10⁻¹² micro curies/ml
- 45 - 10 micro curies/ml
- 46 - 10⁻¹⁸ micro curies/ml
- 47 - 10⁻²¹ micro curies/ml
- 50 - % vol.
- 51 - ppm (vol.)
- 52 - ppb (vol.)
- 90 - % control
- 92 - % capacity
- 94 - Trace
- 98 - Not applicable

49. How Determined

Use code to designate how the actual emissions are determined.

- 1 - Stack test of emission from this process or unit
- 2 - Stack test of emissions from the identical process or unit
- 3 - Stack test of emissions from geometrically similar process or unit
- 4 - Manufacturer's guarantee
- 5 - Published emission factors
- 6 - Material balance calculations
- 7 - Continuous stack monitoring
- 9 - Other

50. % Control Efficiency

Enter actual efficiency of emission control equipment specified in Section D for each contaminant.

51. Emission Rate Potential (ERP) Enter the emission rate potential in lbs./hr. (See NYCRR 200.1(s) for definition). If conversion of units is required from units specified in the applicable rule which are other than pounds per hour, show calculations.
52. Actual Hourly Emissions Enter the actual hourly emission in lbs./hr. based on normal daily operation of the process.
53. Actual Annual Emissions Enter the actual annual emissions in lbs./yr. For radioactive air contaminants enter curies/yr.
54. 10^x For very large or very small annual emission utilize the exponent of 10 to specify the correct magnitude. Enter the exponent (x) and indicate whether plus (+) or minus (-). If exponent is not needed, enter zero.
55. Signature of Authorized Representative or Agent 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.