

# SPECIFIC EMISSION SOURCE INFORMATION (REQUIRED FOR ALL SOURCES)

## Instructions for Form B

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**B – SPECIFIC EMISSION SOURCE INFORMATION (REQUIRED FOR ALL SOURCES)** – This form is to be completed for all processes or emission sources and is to be attached to all other applicable Section B forms (i.e., B2: Fuel Combustion Source, B2-G: Internal Combustion Engine/Generator, B3: Incinerator, B4: Coating/Finishing/Printing, B5: Manufacture of Chemicals/Coating/Inks, B6: Storage Silos/Bins, and B7: Liquid Storage Tanks). Make as many copies of the form as necessary. Attach all calculations and assumptions used in determining the numbers entered on this form.

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**EMISSION SOURCE DESCRIPTION** – Describe each emission source for which application is made. Emission source is defined as any stationary article, machine, process equipment, or other contrivance, or combination thereof, from which air pollutants emanate or are emitted, either directly or indirectly. Groups of equipment that are interconnected as a single continuous process can be labeled a single emission source (e.g., a chain of reaction vessels). However, this description should specify the number of individual pieces of equipment that make up this emission source.

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**EMISSION SOURCE ID No.** - Enter the emission source ID No. for the emission source being described on this form. Fugitive emissions must also be assigned an ID No. (e.g., valves, pumps, compressors = ID No. F195).

*Note: The choice of ID Nos. is at the discretion of the applicant. It is recommended that each emission source ID No. start with ES\_\_\_, control device ID No. CD\_\_\_ and emission point ID No. EP\_\_\_.*

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**MANUFACTURER** - Enter the manufacturer of the emission source.

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**MODEL No.** - Enter the model number of the emission source as defined by the manufacturer. If the source was custom designed, a PE seal may be required pursuant to MCAPCO 1.5233.

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**CONSTRUCTION START DATE** – Enter the date in which construction of new facility and/or equipment is to commence.

**OPERATION DATE** – Enter the date in which the facility and/or equipment is expected to commence.

**MANUFACTURED DATE** – Enter the date in which the equipment was manufactured.

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**CONTROL DEVICE ID No.** - Enter the ID No. for the control device associated with this emission source. For multiple control devices on the same emission source, list in series according to the exhaust air stream direction (i.e., from the emission source to the final emission point). For different emission sources with a common control device, use the same control device ID No. for each emission source.

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**EMISSION POINT ID NO.** - Enter a unique ID No. for each emission point (e.g. stack, vent, etc.) associated with each emission source. Emission sources with a common emission point will have the same emission point ID No. For fugitive emissions enter "FUGITIVE".

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**ACTUAL ANNUAL OPERATING HOURS** - Enter the actual hours the process operates under normal conditions during a calendar year.

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**PRIMARY OR ALTERNATIVE OPERATING SCENARIO** – A Section B form must be submitted for each scenario that the emission source may operate under. In addition to operating under a primary operating scenario, an emission source may operate under one or more alternative operating scenarios. Examples of operating scenarios are as follows:

1. For boilers that combust different types of fuels, the combustion of each fuel is classified as an operating scenario. Many boilers combust both natural gas and No. 6 fuel oil. Each of these fuels constitutes a separate operating scenario.
  2. For reaction vessels that produce different products from different formulations, production of each product is classified as an operating scenario.
  3. For a storage silo that stores different materials, the storage of each material is classified as an operating scenario.
  4. For control devices that are used to control emissions from different emission streams at separate times, each
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emission stream that is controlled is classified as an operating scenario.

5. A spray booth may coat wood furniture and be subject to MCAPCO Regulation 2.0958, but it may also coat metal furniture and be subject to NSPS Subpart EE.

*Note: Some emission sources that emit volatile organic compounds (VOCs) are considered unique in that only the product/solvent formulations that produce the worst-case VOC emissions need to be included in the permit application even though different solvents will be utilized at the emission source.*

**PRIMARY OPERATING SCENARIO** - Select this scenario if information is being entered for the conditions under which the emission source operates the majority of the time. A separate B form must be completed for each scenario.

**ALTERNATIVE OPERATING SCENARIO** - Select this scenario if information is being entered for any secondary conditions under which the emission source operates.

**AOS # (Alternative Operating Scenario ID No.)** – Include a unique ID No. for each alternative operating scenario. A separate B form must be completed for each scenario.

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**IS THE SOURCE SUBJECT TO?** – Check the applicable federal regulation that this source is subject to and remember to complete the Regulatory Analysis section of each form.

NSPS = New Source Performance Standards (40 CFR 60, Specify Subpart)

NESHAP = National Emission Standards for Hazardous Air Pollutants (MCAPCO 2.1110, 40 CFR 61)

MACT/GACT = Maximum Achievable/Generally Available Control Technology (40 CFR 63, Specify Subpart)

PSD = Prevention of Significant Deterioration, Attainment Area (MCAPCO 2.0530, 40 CFR 51)

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**DESCRIBE THE EMISSION SOURCE PROCESS OPERATING SCENARIO** - If the form is being completed for the primary operating scenario, describe the way the process operates the majority of the time. If the form is being completed for an alternative operating scenario, describe the secondary conditions under which the process will be operating. Include capacities (i.e., size, volume, production rate).

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**TYPE OF EMISSION SOURCE** – Indicate the form in which the source will be further detailed (remember to attach indicated form).

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**CRITERIA POLLUTANTS, HAZARDOUS AIR POLLUTANTS & TOXIC AIR POLLUTANTS:**

**BRIEF DESCRIPTION OF CALCULATION METHOD** – Enter the applicable code from the table below which identifies how emissions are calculated for this source’s pollutant and attach the supporting documentation.

Code	Description
CEMS	Continuous Emission Monitoring System
ENG	Engineering Judgement
EPA-EF	EPA Emission Factor
EPA-SP	EPA Speciation Profile
MAT-BAL	Material Balance
MANF	Manufacturer Specification
SS-EF	Site-Specific Emission Factor
SL-EF	State/Local Emission Factor
SL-SP	State/Local Speciation Profile
STACK	Stack Test (indicate the year of the test too)
TRADE	Trade Group Emission Factor
VEND	Vender Emission Factor
OTHER	Describe and attach supporting document with form

**ACTUAL EMISSIONS UNCONTROLLED (lb/yr and tpy)** - Add the actual uncontrolled emissions of each criteria pollutant emitted from all emission sources at the facility. Enter both the pound per year total and the ton per year total.

**ACTUAL EMISSIONS CONTROLLED (lb/yr and tpy)** - If a control device is not used, proceed to “Potential Emissions Uncontrolled”. If a control device is used, add the actual controlled emissions of each criteria pollutant emitted from all emission sources at the facility. Enter both the pound per year total and the ton per year total.

**POTENTIAL EMISSIONS UNCONTROLLED (lb/yr and tpy)** - Add the potential uncontrolled emissions of each criteria pollutant emitted from all emission sources at the facility. Enter both the pound per year total and the ton per year total.

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**POTENTIAL EMISSIONS CONTROLLED (lb/yr and tpy)** - If a control device is not used, proceed to "Other Regulated Pollutants". If a control device is used, add the potential controlled emissions of each criteria pollutant emitted from all emission sources at the facility. Enter both the pound per year total and the ton per year total.

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**SPECIFIC EMISSIONS SOURCE INFORMATION (REQUIRED FOR ALL SOURCES)**

**B**

Emission Source Description:			Emission Source ID No.:		
Manufacturer:			Model No.:		
Construction Start Date:		Operation Date:		Manufactured Date:	
Control Device ID No.:		Emission Point (Stack) ID No.:		Actual Annual Operating hours (hrs/yr):	
Operating Scenario: <input type="checkbox"/> Primary Operating Scenario <input type="checkbox"/> Alternative Operating Scenario AOS #:					
Is This Source Subject To? <input type="checkbox"/> NSPS <input type="checkbox"/> NESHAP <input type="checkbox"/> MACT/GACT <input type="checkbox"/> PSD					
Describe In Detail The Emission Source Process (Attach Flow Diagram):					

**Type of Emission Source (Check and Complete Appropriate Form B1-B7 On The Following Pages):**

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|---|--|---|
| <input type="checkbox"/> General (Form B1)                            | <input type="checkbox"/> Incineration (Form B3)                        | <input type="checkbox"/> Storage Silos/Bins (Form B6)   |
| <input type="checkbox"/> Fuel Combustion Source (Form B2)             | <input type="checkbox"/> Coating Finishing/Printing (Form B4)          | <input type="checkbox"/> Liquid Storage Tanks (Form B7) |
| <input type="checkbox"/> Int. Combustion Engine/Generator (Form B2-G) | <input type="checkbox"/> Manufact. of Chemicals/Coating/Inks (Form B5) |   |

**CRITERIA AIR POLLUTANT EMISSIONS INFORMATION FOR THIS SOURCE**

Air Pollutant Emitted	Source Of Emission Factor	ACTUAL EMISSIONS				POTENTIAL EMISSIONS			
		(Before Controls/Limit)		(After Controls/Limit)		(Before Controls/Limit)		(After Controls/Limit)	
		lb/yr	tons/yr	lb/yr	tons/yr	lb/yr	tons/yr	lb/yr	tons/yr
PM									
PM <sub>10</sub>									
PM <sub>2.5</sub>									
SO <sub>2</sub>									
NO <sub>x</sub>									
CO									
VOC									
LEAD									
Other									

**HAZARDOUS AIR POLLUTANT EMISSIONS INFORMATION FOR THIS SOURCE**

HAP and CAS No.	Source Of Emission Factor	ACTUAL EMISSIONS				POTENTIAL EMISSIONS			
		(Before Controls/Limit)		(After Controls/Limit)		(Before Controls/Limit)		(After Controls/Limit)	
		lb/yr	tons/yr	lb/yr	tons/yr	lb/yr	tons/yr	lb/yr	tons/yr

**TOXIC AIR POLLUTANT EMISSIONS INFORMATION FOR THIS SOURCE**

TAP and CAS No.	Source Of Emission Factor	ACTUAL EMISSIONS				POTENTIAL EMISSIONS			
		(Before Controls/Limit)		(After Controls/Limit)		(Before Controls/Limit)		(After Controls/Limit)	
		lb/yr	tons/yr	lb/yr	tons/yr	lb/yr	tons/yr	lb/yr	tons/yr

**Attachments:**  
 (1) Emissions calculations & supporting documents; and (2) describe any monitoring devices, gauges, or test ports for this source.

**COMPLETE THIS FORM & COMPLETE AND ATTACH APPROPRIATE B1 THROUGH B7 FORM FOR EACH SOURCE  
 ATTACH ADDITIONAL SHEETS AS NECESSARY**