

# EMISSION CALCULATIONS BY METHODS OTHER THAN MASS BALANCE AS CALCULATED ON FORMS D1-4 AND D1-5

## Instructions for Form D2-1

---

---

*Form D2-1 should be used to demonstrate how emissions are calculated for pollutants other than VOC, TAPs and HAPs that have been calculated by mass balance. Sources such as sand blast booths, electroplaters, crushers, etc. may need to use this form. Attach ALL calculations (spreadsheets, hand calculations, etc.) and provide copies of backup documentation for emission factors, assumptions, retention factors, etc. Four different sources can be entered on one form. Make as many copies of the form as necessary.*

---

**EMISSION SOURCE ID** - Enter the emission source ID number for which emission calculations are being demonstrated. The ID number should correspond to those reported on Form A4.

**POLLUTANT(S) BEING EMITTED** - Enter the pollutant or pollutants for which emission calculations are being demonstrated.

**BRIEF DESCRIPTION OF CALCULATION METHOD** - Briefly describe how emissions are calculated for this source and the pollutants listed above (e.g. Emission rates from a stack test conducted in 1997 were used to calculate emissions OR Emission factors from AP-42, 7/96 Edition, Table 12.20-1 were used for electroplating emissions OR Spreadsheet developed by the North Carolina Department of the Environment and Natural Resources was used to calculate emissions from the quarry operations).

---

**WERE EMISSION FACTORS USED?** - Check "Yes" if emission factors were used and "No" if emission factors were not used to calculate emissions.

*Note: If emission factors were used, submit documentation of the source of the emission factor.*

---

**WERE CONTROL EFFICIENCIES USED?** - Check "Yes" if a control efficiency was used and "No" if control efficiency was not used to calculate emissions.

**POLLUTANTS BEING CONTROLLED** - Enter which pollutants are being controlled by the control device.

**WHAT IS THE CONTROL EFFICIENCY?** - Enter the control efficiency that is claimed. Submit documentation of the control efficiency determination (stack test, manufacturer's specifications, etc.)

---

---

**SECTION D**

**EMISSION CALCULATION BY OTHER METHOD OTHER THAN MASS BALANCE  
AS CALCULATED ON FORMS D1-4 & D1-5**

**D2-1**

Attach all calculations (spreadsheets, hand calculations, etc.) and provide copies of backup documentation for emission factors, assumptions, retention factor, etc.

<b>Emissions Source ID:</b>		<b>Pollutant(s) being emitted:</b>	
<b>Brief Description of Calculation Method:</b>			
<b>Were Control Efficiencies Used?</b>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	If Yes, submit documentation regarding the control efficiency determination (i.e. stack test, manufacturer's specifications, etc.)
<b>Pollutants Being Emitted:</b>			
<b>Control Efficiency:</b>	%	%	%
<b>Were Emission Factors Used?</b>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	If Yes, submit documentation of emission factor source (i.e. stack test, AP-42, etc.)

<b>Emissions Source ID:</b>		<b>Pollutant(s) being emitted:</b>	
<b>Brief Description of Calculation Method:</b>			
<b>Were Control Efficiencies Used?</b>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	If Yes, submit documentation regarding the control efficiency determination (i.e. stack test, manufacturer's specifications, etc.)
<b>Pollutants Being Emitted:</b>			
<b>Control Efficiency:</b>	%	%	%
<b>Were Emission Factors Used?</b>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	If Yes, submit documentation of emission factor source (i.e. stack test, AP-42, etc.)

<b>Emissions Source ID:</b>		<b>Pollutant(s) being emitted:</b>	
<b>Brief Description of Calculation Method:</b>			
<b>Were Control Efficiencies Used?</b>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	If Yes, submit documentation regarding the control efficiency determination (i.e. stack test, manufacturer's specifications, etc.)
<b>Pollutants Being Emitted:</b>			
<b>Control Efficiency:</b>	%	%	%
<b>Were Emission Factors Used?</b>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	If Yes, submit documentation of emission factor source (i.e. stack test, AP-42, etc.)

<b>Emissions Source ID:</b>		<b>Pollutant(s) being emitted:</b>	
<b>Brief Description of Calculation Method:</b>			
<b>Were Control Efficiencies Used?</b>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	If Yes, submit documentation regarding the control efficiency determination (i.e. stack test, manufacturer's specifications, etc.)
<b>Pollutants Being Emitted:</b>			
<b>Control Efficiency:</b>	%	%	%
<b>Were Emission Factors Used?</b>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	If Yes, submit documentation of emission factor source (i.e. stack test, AP-42, etc.)