



Potential to Emit PARTICULATE GENERATING EMISSION UNIT CALCULATION WORKSHEET

This calculation form is to be used for emission units that emit only particulate matter (PM) and are connected to an exhaust system or collector exclusively serving the equipment. (e.g., woodworking, grinding, grain handling)

Company Name:	Name of Person completing form:
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- Complete Table 1 for emission units that are Exempt from the requirement to obtain a Permit to Install under Rule 285(dd)(iii), 285(gg), 285(l)(i), 285(l)(vi), 285(o), 285(p), 287(d), or 290(iii).
- Complete Table 2 if the emission unit is permitted.

Table 1: Exempt Emission Unit	
A. Emission Unit Description	
B. Permit to Install Exemption (check one):	
<input type="checkbox"/> Rule 285(dd)(iii)	<input type="checkbox"/> Rule 285(l)(i)
<input type="checkbox"/> Rule 285(gg)	<input type="checkbox"/> Rule 285(l)(vi)
<input type="checkbox"/> Rule 285(o)	<input type="checkbox"/> 287(d)
<input type="checkbox"/> Rule 285(p)	<input type="checkbox"/> 290(iii)
C. Is this emission unit connected to an exhaust system or PM control device?	<input type="checkbox"/> Yes <input type="checkbox"/> No (cannot use this form)
D. Maximum capacity of exhaust fan (cubic feet per minute):	cfm
E. Maximum emission rate (lbs air/hr):	
$(D) \times (60 \text{ min/hr}) \times (0.075 \text{ lbs air/cf air}^*) =$	lbs air/hr
Potential to Emit	
F. Potential to Emit PM	
$(E) \times (0.10 \text{ lbs PM}/1,000 \text{ lbs air}) \times (8,760 \text{ hrs/yr}) \times (1 \text{ ton}/2,000 \text{ lbs}) =$	tons PM/yr

* dry standard conditions

Table 2: Permitted Emission Unit	
A. Emission Unit Description	
B. Permit to Install No:	C. PM emission limit in permit:
	lbs PM / 1,000 lbs exhaust gases
D. Does the permit require a bag house or fabric filter?	E. Baghouse/filter control efficiency for PM:
<input type="checkbox"/> Yes <input type="checkbox"/> No (skip next question)	%
F. Maximum capacity of exhaust fan (cubic feet per minute):	
	cfm
G. Maximum emission rate (lbs air/hr):	
$(F) \times (60 \text{ min/hr}) \times (0.075 \text{ lbs air/cf air}^*) =$	lbs air/hr
Potential to Emit	
H. Potential to Emit PM (UNCONTROLLED)	
$(G) \times [(C)/1,000] \times (8,760 \text{ hrs/yr}) \times (1 \text{ ton}/2,000 \text{ lbs}) =$	tons PM/yr (uncontrolled)
I. Potential to Emit PM (CONTROLLED) – only complete if answered “yes” to D above	
$(H) \times (100 - (E)/100) =$	tons PM/yr (controlled)

* dry standard conditions



Potential to Emit PARTICULATE GENERATING EMISSION UNIT CALCULATION FORM

EXAMPLE

This calculation form is to be used for emission units that emit only particulate matter (PM) and are connected to an exhaust system or collector exclusively serving the equipment. (e.g., woodworking, grinding, grain handling)

Company Name: Sample Corporation	Name of Person completing form: Joseph Sample
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- Complete Table 1 for emission units that are Exempt from the requirement to obtain a Permit to Install under Rule 285(dd)(iii), 285(gg), 285(l)(i), 285(l)(vi), 285(o), 285(p), 287(d), or 290(iii).
- Complete Table 2 if the emission unit is permitted.

Table 1: Exempt Emission Unit	
A. Emission Unit Description Wood Sanding Operation	
B. Permit to Install Exemption (check one):	
<input type="checkbox"/> Rule 285(dd)(iii)	<input type="checkbox"/> Rule 285(l)(i)
<input type="checkbox"/> Rule 285(gg)	<input checked="" type="checkbox"/> Rule 285(l)(vi)
<input type="checkbox"/> Rule 285(o)	<input type="checkbox"/> 287(d)
<input type="checkbox"/> Rule 285(p)	<input type="checkbox"/> 290(iii)
C. Is this emission unit connected to an exhaust system or PM control device?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (cannot use this form)
D. Maximum capacity of exhaust fan (cubic feet per minute):	10,000 cfm
E. Maximum emission rate (lbs air/hr): (D) x (60 min/hr) x (0.075 lbs air/cf air*) = 45,000 lbs air/hr	
Potential to Emit	
F. Potential to Emit PM (E) x (0.10 lbs PM/1,000 lbs air) x (8,760 hrs/yr) x (1 ton/2,000 lbs) = 19.71 tons PM/yr	

* dry standard conditions

Table 2: Permitted Emission Unit	
A. Emission Unit Description	
B. Permit to Install No:	C. PM emission limit in permit: lbs PM / 1,000 lbs exhaust gases
D. Does the permit require a bag house or fabric filter?	E. Baghouse/filter control efficiency for PM: %
<input type="checkbox"/> Yes	<input type="checkbox"/> %
<input type="checkbox"/> No (skip next question)	
F. Maximum capacity of exhaust fan (cubic feet per minute): cfm	
G. Maximum emission rate (lbs air/hr): (F) x (60 min/hr) x (0.075 lbs air/cf air*) = lbs air/hr	
Potential to Emit	
H. Potential to Emit PM (UNCONTROLLED) (G) x ([C]/1,000) x (8,760 hrs/yr) x (1 ton/2,000 lbs) = tons PM/yr (uncontrolled)	
I. Potential to Emit PM (CONTROLLED) – only complete if answered “yes” to D above (H) x (100 – (E)/100) = tons PM/yr (controlled)	

* dry standard conditions