



Potential to Emit DIESEL FIRED GENERATOR CALCULATION WORKSHEET

Company Name:	Name of Person Completing Form:
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Generator Information
A. Is this an emergency generator? (see definition of "emergency generator" below) <input type="checkbox"/> Yes (go to Table A) <input type="checkbox"/> No (go to Table B)
B. Maximum Fuel Usage Rate (gal/hr): <div style="text-align: center;">gallons of diesel fuel/hour</div>

An "emergency generator" is a generator whose sole function is to provide back-up power when electric power from the local utility is interrupted. An emergency generator does not include (1) peaking units at electric utilities; (2) generators at industrial facilities that typically operate at low rates, but are not confined to emergency purposes; and (3) any standby generator that is used during time periods when power is available from the utility.

Table A: Emergency Generator Potential to Emit	
C. Potential to Emit NO _x (B) x (604 lbs NO _x /1,000 gal of fuel) x (500 hrs/yr) x (1 ton/2,000 lbs) =	Tons NO_x/yr
D. Potential to Emit CO: (B) x (130 lbs CO/1,000 gal of fuel) x (500 hrs/yr) x (1 ton/2,000 lbs) =	Tons CO/yr
E. Potential to Emit PM: (B) x (42.5 lbs PM/1,000 gal of fuel) x (500 hrs/yr) x (1 ton/2,000 lbs) =	Tons PM/yr
F. Potential to Emit SO _x : (B) x (39.7 lbs SO ₂ /1,000 gal fuel) x (500 hrs/yr) x (1 ton/2,000 lbs) =	Tons SO_x/yr

NOTE: The Environmental Protection Agency (EPA) has determined that 500 hours/yr should be used as the maximum operating time when calculating the potential to emit (PTE) for an emergency generator (For a copy of this memo go to www.michigan.gov/deqair (select "Clean Air Assistance" then "Potential to Emit").

Table B: Non-Emergency Generator Potential to Emit	
C. Potential to Emit NO _x (B) x (604 lbs NO _x /1,000 gal of fuel) x (8,760 hrs/yr) x (1 ton/2,000 lbs) =	Tons NO_x/yr
D. Potential to Emit CO: (B) x (130 lbs CO/1,000 gal of fuel) x (8,760 hrs/yr) x (1 ton/2,000 lbs) =	Tons CO/yr
E. Potential to Emit PM: (B) x (42.5 lbs PM/1,000 gal of fuel) x (8,760 hrs/yr) x (1 ton/2,000 lbs) =	Tons PM/yr
F. Potential to Emit SO _x : (B) x (39.7 lbs SO ₂ /1,000 gal fuel) x (8,760 hrs/yr) x (1 ton/2,000 lbs) =	Tons SO_x/yr

Emission factors in this worksheet are from EPA's FIRE 6.24 Software SCC: 2-01-001-02 (www.epa.gov/ttn/chief/software/fire/index.html).



Potential to Emit DIESEL FIRED GENERATOR CALCULATION WORKSHEET

Company Name: Sample Corporation	Name of Person Completing Form: Joseph Sample
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Generator Information

A. Is this an emergency generator? (see definition of "emergency generator" below) Yes (go to Table A) No (go to Table B)

B. Maximum Fuel Usage Rate (gal/hr):
50 gallons of diesel fuel/hour

An "emergency generator" is a generator whose sole function is to provide back-up power when electric power from the local utility is interrupted. An emergency generator does not include (1) peaking units at electric utilities; (2) generators at industrial facilities that typically operate at low rates, but are not confined to emergency purposes; and (3) any standby generator that is used during time periods when power is available from the utility.

Table A: Emergency Generator Potential to Emit

C. Potential to Emit NO _x (B) x (604 lbs NO _x /1,000 gal of fuel) x (500 hrs/yr) x (1 ton/2,000 lbs) =	7.55 Tons NO_x/yr
D. Potential to Emit CO: (B) x (130 lbs CO/1,000 gal of fuel) x (500 hrs/yr) x (1 ton/2,000 lbs) =	1.63 Tons CO/yr
E. Potential to Emit PM: (B) x (42.5 lbs PM/1,000 gal of fuel) x (500 hrs/yr) x (1 ton/2,000 lbs) =	0.53 Tons PM/yr
F. Potential to Emit SO _x : (B) x (39.7 lbs SO ₂ /1,000 gal fuel) x (500 hrs/yr) x (1 ton/2,000 lbs) =	0.50 Tons SO_x/yr

NOTE: The Environmental Protection Agency (EPA) has determined that 500 hours/yr should be used as the maximum operating time when calculating the potential to emit (PTE) for an emergency generator (For a copy of this memo go to www.michigan.gov/deqair (select "Clean Air Assistance" then "Potential to Emit").

Table B: Non-Emergency Generator Potential to Emit

G. Potential to Emit NO _x (B) x (604 lbs NO _x /1,000 gal of fuel) x (8,760 hrs/yr) x (1 ton/2,000 lbs) =	Tons NO_x/yr
H. Potential to Emit CO: (B) x (130 lbs CO/1,000 gal of fuel) x (8,760 hrs/yr) x (1 ton/2,000 lbs) =	Tons CO/yr
I. Potential to Emit PM: (B) x (42.5 lbs PM/1,000 gal of fuel) x (8,760 hrs/yr) x (1 ton/2,000 lbs) =	Tons PM/yr
J. Potential to Emit SO _x : (B) x (39.7 lbs SO ₂ /1,000 gal fuel) x (8,760 hrs/yr) x (1 ton/2,000 lbs) =	Tons SO_x/yr

Emission factors in this worksheet are from EPA's FIRE 6.24 Software SCC: 2-01-001-02 (www.epa.gov/ttn/chieff/software/fire/index.html).