



**Albuquerque Environmental Health Department
Air Quality Program**

Please mail this application to **P.O. Box 1293, Albuquerque, NM 87103**
OR hand deliver between 8:00am - 5:00pm Monday - Friday to:
3rd Floor, Suite 3023 - One Civic Plaza NW, Albuquerque, New Mexico 87103
(505) 768 - 1972 aqd@cabq.gov (505) 768 - 1977 (Fax)



**20.11.41 NMAC Air Quality Permit Application
For**

**NON - EMERGENCY DIESEL ENGINES
SUBJECT TO FEDERAL (USEPA) NEW SOURCE PERFORMANCE STANDARDS (NSPS)**

Section 1. General Information

Date Submitted: ____ / ____ / 20____

1. Company Name: _____ Ph: (____) _____ Fax:(____) _____
2. Company Address: _____ City: _____ State: _____ Zip: _____
3. Company Mailing Address (if different): _____ Zip: _____
4. Company Contact: _____ Title: _____ Ph: (____) _____ - _____ E-mail: _____
5. Facility Name: _____ Facility Hours: _____ : _____ am or pm TO _____ : _____ am or pm
6. Facility Address: _____ City: _____ State: _____ Zip: _____
7. Local Business Mailing Address (if different): _____ Zip: _____
8. Facility Environmental Contact: _____ Title: _____ Ph: (____) _____ - _____ Fax:(____) _____ - _____
9. Facility Environmental Contact E-Mail Address: _____ 10. Type of Business: _____
11. Environmental Consultant Name and E-Mail Address (if applicable): _____
12. North American Industry Classification System (NAICS): _____ 13. Standard Industrial Classification (SIC): _____
14. UTM coordinates (required): _____ east _____ north 15. Facility Ph: (____) _____ - _____ Fax:(____) _____ - _____
16. Billing Contact: _____ Title: _____ Ph: (____) _____ - _____ Fax:(____) _____ - _____
17. Billing Address: _____ City: _____ State: _____ Zip: _____
18. Is this an Initial Installation; OR Modification of an Existing Unit: ____ Initial ____ Modification
19. Is engine or genset installed: ____ Yes ____ No If yes, date installed: ____/____/____ If no, anticipated installation ____/____/20____
20. Current or requested operating times of facility: ____ hours/day ____ days/week ____ weeks/month ____ months/year = _____ hrs/yr

Provide an engine spec sheet and a detailed site plan or plat of the property where engine or genset is to be installed

Section 2. Compression Ignition Internal Combustion Engine for Stationary Non - Emergency Engines

Provide engine rating in horsepower (Hp) as determined by manufacturer's spec sheet

Process Equipment Unit	Manufacturer	Model Number	Serial Number	Manufacturer Date	Modification Date	Engine Size In Horsepower (Hp)	Size of Generator In kilowatts (kW)
Example Engine	Unigen	B-2500	A56732195C-222	02/2008	N/A	375	N/A
Example Generator	Gentor	A56789B234	XYZ13247586	02/2008	N/A	N/A	280 kW
Engine							N/A
Generator						N/A	

Section 3. Stack and Emissions Information

Stack Height Above Ground & Stack Diameter In Feet		Stack Temperature	Stack Flow Rate & Exit Direction
Example	18 feet – Height	0.42 feet – Diameter	625 °F
			3,000 ft ³ /min – Flow Rate Exit - upward

Section 4. Potential Emission Rate (Uncontrolled Emissions)

Use the attached USEPA Emission Factors, manufacturer's data or compliance performance stack test data in grams per horsepower-hour (g/Hp-hr) associated with the Engine's Horsepower Rating and Model Year

Model Year	Pollutant	Emission Factors g/Hp-hr	T I M E S	Actual Engine Hp	E Q U A L S	Emission In Grams Per Hour	D I V I D E	Grams Per Pound	E Q U A L S	Emission in Pounds Per Hour	T I M E S	Potential Operating Hours Per Year	D I V I D E	Pounds Per Ton	E Q U A L S	Emission In Tons Per Year
E X A M P L E 2008	CO	2.6	x	375 Hp	=	975	+	453.6	=	2.15	x	8,760	+	2,000	=	9.4
	NO _x	0.3	x		=	112.5	÷		=	0.25	x	8,760	÷	2,000	=	1.1
	NMHC	0.14	x		=	52.5	÷		=	0.12	x	8,760	÷	2,000	=	0.53
	*NO _x + NMHC	3.0	x		=	1,125	+		=	2.48	x	8,760	+	2,000	=	10.86
	**SO _x	0.93	x		=	348.8	÷		=	0.77	x	8,760	÷	2,000	=	3.37
	***PM	0.15	x		=	56.25	÷		=	0.12	x	8,760	÷	2,000	=	0.53
	CO		x		=		+		=		x	8,760	+	2,000	=	
	NO _x		x		=		+		=		x	8,760	+	2,000	=	
	NMHC		x		=		÷		=		x	8,760	÷	2,000	=	
	*NO _x + NMHC		x		=		÷		=		x	8,760	÷	2,000	=	
	**SO _x		x		=		+		=		x	8,760	+	2,000	=	
	***PM		x		=		÷		=		x	8,760	÷	2,000	=	

- *If the USEPA Emission Factor or manufacturer's data is given as combined NO_x + NMHC, also provide individual emission factors for NO_x and NMHC from the manufacturer or other approved methodology for estimating individual emission factors.
- ** Manufacturer's SO_x factor shall be used when larger than the USEPA Emission Factor.
- *** Particulate Matter (PM) emissions are considered to be < 1um (micron). Therefore, PM emissions also reflect PM10 & PM2.5.

Section 5. Potential to Emit (Requested allowable rate) (Controlled Emissions)

Transfer each pollutant Emission in Pounds Per Hour from column above to the Emission in Pounds Per Hour column below. Complete the equation after inserting the Requested Operating Hours Per Year. Pound Per Hour rate for each pollutant must be met if performance testing is requested.

Pollutant	Emission in Pounds Per Hour	T I M E S	Requested Operating Hours Per Year	E Q U A L S	Pounds Per Year	D I V I D E	Pounds Per Ton	E Q U A L S	Emission In Tons Per Year
EXAMPLE CO	2.15	x	3,000	=	6,450	÷	2,000	=	3.23
NO _x		x		=		÷		=	
NMHC		x		=		÷		=	
*NO _x + NMHC	2.48	x	3,000	=	7,440	+	2,000	=	3.72
**SO _x	0.77	x	3,000	=	2,310	÷	2,000	=	1.16
***PM	0.12	x	3,000	=	360	÷	2,000	=	0.18
CO		x		=		+	2,000	=	
NO _x		x		=		+	2,000	=	
NMHC		x		=		÷	2,000	=	
*NO _x + NMHC		x		=		+	2,000	=	
**SO _x		x		=		+	2,000	=	
***PM		x		=		÷	2,000	=	

I, the undersigned, a responsible officer of the applicant company, certify that to the best of my knowledge, the information stated on this application, together with associated drawings, specifications, and other data, give a true and complete representation of the existing, modified existing, or planned new stationary source with respect to air pollution sources and control equipment. I also understand that any significant omissions, errors, or misrepresentations in these data will be cause for revocation of part or all of the resulting source registration and air quality permit.

_____/_____/20_____
 Print Name Sign Name Title Date

METHOD OF SUBMITTAL: Mail OR Hand deliver (8:00am – 5:00pm ; Monday – Friday) to the Address at the top of Page 1.

**Federal New Source Performance Standards (NSPS) for Stationary NON - EMERGENCY Diesel Engines (40CFR 60.4201 & 60.4204)
in Grams Per Horsepower Hour (g/hp-hr) for Engines with a displacement of < 10 Liters Per Cylinder**

Horsepower / kW	Tier (CFR Section)	Year Of Manufacture	CO (g/hp-hr)	NOx (g/hp-hr)	NMHC (g/hp-hr)	NOx + NMHC ¹ (g/hp-hr)	SOx ² (g/hp-hr)	Particulate Matter (g/hp-hr)	Notes	
< 11 Hp < 8 kW	1 (60.4204)	Pre 2007 ⁴	6.0			7.8	0.93*	0.75	* Use AP-42 Section 3.3 if <600Hp, Section 3.4 if >600Hp, as shown on this table, or manufacturer's factors. Manufacturer's factors shall be used when larger than AP-42 factors.	
	2 (60.4201) - (89.112)	2007	6.0			5.6	0.93*	0.6		
	4 (60.4201) - (1039.102)	2008 - 2014	6.0			5.6	0.93*	0.3		
	4 (60.4201) - (1039.101)	2015 +	6.0			5.6	0.93*	0.3		
≥ 11 Hp < 25 Hp ≥ 8 kW < 19 kW	1 (60.4204)	Pre 2007 ⁴	4.9			7.1	0.93*	0.6		
	2 (60.4201) - (89.112)	2007	4.9			5.6	0.93*	0.6		
	4 (60.4201) - (1039.102)	2008 - 2014	4.9			5.6	0.93*	0.3		
	4 (60.4201) - (1039.101)	2015 +	4.9			5.6	0.93*	0.3		
≥ 25 Hp < 50 Hp ≥ 19 kW < 37 kW	1 (60.4204)	Pre 2007 ⁴	4.1			7.1	0.93*	0.6		
	2 (60.4201) - (89.112)	2007	4.1			5.6	0.93*	0.45		
	4 (60.4201) - (1039.102)	2008 - 2012	4.1			5.6	0.93*	0.22		
	4 (60.4201) - (1039.101)	2013 +	4.1			3.5	0.93*	0.02		
≥ 50 Hp < 75 Hp ≥ 37 kW < 56 kW	1 (60.4204)	Pre 2007 ⁴	**	6.9	**		0.93*	**	** Use AP-42 Section 3.3 factors for CO, NMHC, and PM as shown on this table, or manufacturer's factors. Manufacturer's factors shall be used when larger than AP-42 factors.	
	2 (60.4201) - (89.112)	2007	3.7			5.6	0.93*	0.3		
	3 (60.4201) - (89.112) & 4 (1039.102)	2008 - 2011	3.7			3.5	0.93*	0.3 (0.02 by 2012+)	Option #2	
	4 (60.4201) - (1039.102)	2008 - 2012	3.7			3.5	0.93*	0.22	Option #1	
	4 (60.4201) - (1039.102) & (1039.101)	2013 +	3.7			3.5	0.93*	0.02		
≥ 75 Hp < 100 Hp ≥ 56 kW < 75 kW	1 (60.4204)	Pre 2007 ⁴	**	6.9	**		0.93*	**		
	2 (60.4201) - (89.112)	2007	3.7			5.6	0.93*	0.3		
	3 (60.4201) - (89.112)	2008 - 2011	3.7			3.5	0.93*	0.3		
	4 (60.4201) - (1039.102)	2012 -2013	3.7	0.3***	0.14***	3.5***	0.93*	0.01	***Phase in/out ³ [1039.102(c)(1)]	
	4 (1039.102) & (1039.101)	2014 +	3.7	0.3	0.14		0.93*	0.01		
≥ 100 Hp < 175 Hp ≥ 75 kW < 130 kW	1 (60.4204)	Pre 2007 ⁴	**	6.9	**		0.93*	**		
	3 (60.4201) - (89.112)	2007 - 2011	3.7			3.0	0.93*	0.22		
	4 (60.4201) - (1039.102)	2012 -2013	3.7	0.3***	0.14***	3.0***	0.93*	0.01	***Phase in/out ³ [1039.102(c)(1)]	
	4 (60.4201) - (1039.102) & (1039.101)	2014 +	3.7	0.3	0.14		0.93*	0.01		
≥ 175 Hp ≤ 750 Hp ≥ 130 kW ≤ 560 kW	1 (60.4204)	Pre 2007 ⁴	8.5	6.9	1.0		0.93*	0.4		
	3 (60.4201) - (89.112)	2007 - 2010	2.6			3.0	0.93*for < 600Hp or 3.67* for > 600Hp	0.15	***Phase in/out ³ [1039.102(c)(1)]	
	4 (60.4201) - (1039.102)	2011 - 2013	2.6	0.3***	0.14***	3.0***		0.01		
	4 (60.4201) - (1039.102) & (1039.101)	2014+	2.6	0.3	0.14			0.01		
> 750 > 560 kW	1 (60.4204)	Pre 2007 ⁴	8.5	6.9	1.0		3.67*	0.4		
	2 (60.4201) - (89.112)	2007- 10****	2.6			4.8	3.67*	0.15		
	**** 2007 – 2010 Model Year Engines > 3,000 Hp shall meet the Pre 2007 standards									
	4 (60.4201) - (1039.102)	2011 - 2014	2.6	2.6	0.3		3.67*	0.075		
4 (60.4201) - (1039.101)	2015 +	2.6	2.6	0.14		3.67*	0.03			

Gensets⁵

	Tier (CFR Section)	Year Of Manufacture	CO (g/hp-hr)	NOx (g/hp-hr)	NMHC (g/hp-hr)	NOx + NMHC ¹ (g/hp-hr)	SOx ² (g/hp-hr)	Particulate Matter (g/hp-hr)	Notes
> 750 Hp ≤ 1200 Hp > 560 kW ≤ 900 kW	2(60.4200) (89.112)	2007-2010	2.6			4.8	3.67*	0.15	
	4 (1039.102)	2011 - 2014	2.6	2.6	0.3		3.67*	0.075	
	4 (1039.101)	2015 +	2.6	0.5	0.14		3.67*	0.02	
> 1200 Hp > 900 kW	2(60.4200) (89.112)	2007-2010	2.6			4.8	3.67*	0.15	
	4 (1039.102)	2011 - 2014	2.6	0.5	0.3		3.67*	0.075	
	4 (1039.101)	2015 +	2.6	0.5	0.14		3.67*	0.02	

¹ When an emission factor is given for combined NOx + NMHC, individual emission factors for NOx and NMHC must be obtained from the manufacturer.

² SOx emission factors shall be based on AP-42 Section 3.3 for engines less than (<) 600 Hp and Section 3.4 for engines greater than (>) 600 Hp, or manufacturer's factors since SOx emission standards were not established for non-road diesel engine rulemaking. Manufacturer's factors shall be used when larger than the AP-42 factors. For engines > 600 Hp, the "S" multiplier is 0.05 (5%) if calculating SOx to reflect the current low sulfur diesel fuel standard of 500 ppm. Percent sulfur in diesel fuel transitions to Ultra Low Sulfur Diesel (15 ppm) by October 2010. For engines operated after October 2010, with a year of manufacture of 2010 or later, the "S" multiplier is 0.0015 (0.15%) if calculating SOx to reflect the proposed new standard.

³ 50 percent of the engines produced have to meet the NOx + NMHC standard, and 50 percent have to meet the separate NOx and NMHC limits. If claiming your unit was manufactured to meet the NOx + NMHC standard, please provide certified documentation citing the unit is part of the Phase-out option.

⁴ Pre 2007 means each stationary Compression Ignition Internal Combustion Engine (CI ICE) whose construction, modification or reconstruction commenced after July 11, 2005. The date of construction is the date the engine is ordered by the owner or operator. Stationary CI ICE manufactured prior to April 1, 2006, that are not fire pump engines are not subject to NSPS, unless the engines are modified or reconstructed after July 11, 2005. A modified or reconstructed CI ICE must meet the emission standards for the model year in which the engine was originally new, not the year the engine is modified or reconstructed (Preamble language – Section II. E).

⁵ Generator sets (Gensets) are given specific emission requirements for engines >750 Hp in the preamble of Standards of Performance for Stationary Compression Ignition Internal Combustion Engines-Final Rule; but are not cited in 40 CFR 60 Subpart IIII emission tables. They are addressed in 40 CFR 89.112, 1039.102 and 1039.101 for exhaust emission standards 2007-2010, 2011-2014 and after the 2014 model year, respectively.