Revised #3304

City of Albuquerque

Environmental Health Department
Air Quality Program
Permit Application Review Fee Checklist

Please completely fill out the information in each section. Incompleteness of this checklist may result in the Albuquerque Environmental Health Department not accepting the application review fees. If you should have any questions concerning this checklist, please call 768-1972.

I. COMPANY INFORMATION:

Company Name	Nusenda Credit Union	
Company Address	Main Office, 10090 Coors Blvd. NW, Albuquerque, NM 87114	
Facility Name	Nusenda Credit Union, Uptown Branch	
Facility Address	6501 Indian School Rd NE, Albuquerque, NM 87111	
Contact Person	Tom Johnson, AVP, Facilities & Construction	
Contact Person Phone Number	(505) 872-5424 Email: tjohnson@nusenda.org	
Are these application review fees for an existing permitted source located within the City of Albuquerque or Bernalillo County?	~~Yes~~	**No**
If yes, what is the permit number associated with this modification?	N/A	
Is this application review fee for a Qualified Small Business as defined in 20.11.2 NMAC? (See Definition of Qualified Small Business on Page 4)	~~Yes~~	**No**

II. STATIONARY SOURCE APPLICATION REVIEW FEES:

If the application is for a new stationary source facility, please check all that apply. If this application is for a modification to an existing permit please see Section III.

Check All That Apply	Stationary Sources	Review Fee	Program Element
Stationary Source Review Fees (Not Based on Proposed Allowable Emission Rate)			
	Source Registration required by 20.11.40 NMAC	$ 544.00	2401
	A Stationary Source that requires a permit pursuant to 20.11.41 NMAC or other board regulations and are not subject to the below proposed allowable emission rates	$ 1,088.00	2301
x	*Not Applicable*	*See Sections Below*	
Stationary Source Review Fees (Based on the Proposed Allowable Emission Rate for the single highest fee pollutant)			
	Proposed Allowable Emission Rate Equal to or greater than 1 tpy and less than 5 tpy	$ 816.00	2302
X	Proposed Allowable Emission Rate Equal to or greater than 5 tpy and less than 25 tpy	$ 1,632.00	2303
	Proposed Allowable Emission Rate Equal to or greater than 25 tpy and less than 50 tpy	$ 3,265.00	2304
	Proposed Allowable Emission Rate Equal to or greater than 50 tpy and less than 75 tpy	$ 4,897.00	2305
	Proposed Allowable Emission Rate Equal to or greater than 75 tpy and less than 100 tpy	$ 6,530.00	2306
	Proposed Allowable Emission Rate Equal to or greater than 100 tpy	$8,162.00	2307
	Not Applicable	*See Section Above*	
Federal Program Review Fees (In addition to the Stationary Source Application Review Fees above)			
X	40 CFR 60 - "New Source Performance Standards" (NSPS)	$ 1,088.00	2308
	40 CFR 61 - "Emission Standards for Hazardous Air Pollutants (NESHAPs)	$ 1,088.00	2309
	40 CFR 63 - (NESHAPs) Promulgated Standards	$ 1,088.00	2310
	40 CFR 63 - (NESHAPs) Case-by-Case MACT Review	$ 10,883.00	2311
	20.11.61 NMAC, Prevention of Significant Deterioration (PSD) Permit	$ 5,442.00	2312
	20.11.60 NMAC, Non-Attainment Area Permit	$ 5,442.00	2313
	Not Applicable	*Not Applicable*	

RECEIVED 12/8/16

III. MODIFICATION TO EXISTING PERMIT APPLICATION REVIEW FEES:

If the permit application is for a modification to an existing permit, please check all that apply. If this application is for a new stationary source facility, please see Section II.

Check All That Apply	Modifications	Review Fee	Program Element
Modification Application Review Fees (Not Based on Proposed Allowable Emission Rate)			
	Proposed modification to an existing stationary source that requires a permit pursuant to 20.11.41 NMAC or other board regulations and are not subject to the below proposed allowable emission rates	$ 1,088.00	2321
x	*Not Applicable*	*See Sections Below*	
Modification Application Review Fees (Based on the Proposed Allowable Emission Rate for the single highest fee pollutant)			
	Proposed Allowable Emission Rate Equal to or greater than 1 tpy and less than 5 tpy	$ 816.00	2322
	Proposed Allowable Emission Rate Equal to or greater than 5 tpy and less than 25 tpy	$ 1,632.00	2323
	Proposed Allowable Emission Rate Equal to or greater than 25 tpy and less than 50 tpy	$ 3,265.00	2324
	Proposed Allowable Emission Rate Equal to or greater than 50 tpy and less than 75 tpy	$ 4,897.00	2325
	Proposed Allowable Emission Rate Equal to or greater than 75 tpy and less than 100 tpy	$ 6,530.00	2326
	Proposed Allowable Emission Rate Equal to or greater than 100 tpy	$8,162.00	2327
x	*Not Applicable*	*See Section Above*	
Major Modifications Review Fees (In addition to the Modification Application Review Fees above)			
	20.11.60 NMAC, Permitting in Non-Attainment Areas	$ 5,442.00	2333
	20.11.61 NMAC, Prevention of Significant Deterioration	$ 5,442.00	2334
x	*Not Applicable*	*Not Applicable*	
Federal Program Review Fees (This section applies only if a Federal Program Review is triggered by the proposed modification) (These fees are in addition to the Modification and Major Modification Application Review Fees above)			
	40 CFR 60 - "New Source Performance Standards" (NSPS)	$ 1,088.00	2328
	40 CFR 61 - "Emission Standards for Hazardous Air Pollutants (NESHAPs)	$ 1,088.00	2329
	40 CFR 63 - (NESHAPs) Promulgated Standards	$ 1,088.00	2330
	40 CFR 63 - (NESHAPs) Case-by-Case MACT Review	$ 10,883.00	2331
	20.11.61 NMAC, Prevention of Significant Deterioration (PSD) Permit	$ 5,442.00	2332
	20.11.60 NMAC, Non-Attainment Area Permit	$ 5,442.00	2333
x	*Not Applicable*	*Not Applicable*	

IV. ADMINISTRATIVE AND TECHNICAL REVISION APPLICATION REVIEW FEES:

If the permit application is for an administrative or technical revision of an existing permit issued pursuant to 20.11.41 NMAC, please check one that applies.

Check One	Revision Type	Review Fee	Program Element
	Administrative Revisions	$ 250.00	2340
	Technical Revisions	$ 500.00	2341
x	*Not Applicable*	*See Sections II, III or V*	

V. PORTABLE STATIONARY SOURCE RELOCATION FEES:

If the permit application is for a portable stationary source relocation of an existing permit, please check one that applies.

Check One	Portable Stationary Source Relocation Type	Review Fee	Program Element
	No New Air Dispersion Modeling Required	$ 500.00	2501
	New Air Dispersion Modeling Required	$ 750.00	2502
x	*Not Applicable*	*See Sections II, III or V*	

VI. Please submit a check or money order in the amount shown for the total application review fee.

Section Totals	Review Fee Amount
Section II Total	$ 2,720.00
Section III Total	$
Section IV Total	$
Section V Total	$
Total Application Review Fee	**$ 2,720.00**

I, the undersigned, a responsible official of the applicant company, certify that to the best of my knowledge, the information stated on this checklist, give a true and complete representation of the permit application review fees which are being submitted. I also understand that an incorrect submittal of permit application reviews may cause an incompleteness determination of the submitted permit application and that the balance of the appropriate permit application review fees shall be paid in full prior to further processing of the application.

Signed this 7 **day of** December **2016**

David Weidauer
Print Name

Chief Retail Officer
Print Title

Signature

Definition of Qualified Small Business as defined in 20.11.2 NMAC:
"Qualified small business" means a business that meets all of the following requirements:

(1) a business that has 100 or fewer employees;
(2) a small business concern as defined by the federal Small Business Act;
(3) a source that emits less than 50 tons per year of any individual regulated air pollutant, or less than 75 tons per year of all regulated air pollutants combined; and
(4) a source that is not a major source or major stationary source.

Note: Beginning January 1, 2011, and every January 1 thereafter, an increase based on the consumer price index shall be added to the application review fees. The application review fees established in Subsection A through D of 20.11.2.18 NMAC shall be adjusted by an amount equal to the increase in the consumer price index for the immediately-preceding year. Application review fee adjustments equal to or greater than fifty cents ($0.50) shall be rounded up to the next highest whole dollar. Application review fee adjustments totaling less than fifty cents ($0.50) shall be rounded down to the next lowest whole dollar. The department shall post the application review fees on the city of Albuquerque environmental health department air quality program website.

City of 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
EMERGENCY NATURAL GAS ENGINES
SUBJECT TO FEDERAL (USEPA) NEW SOURCE PERFORMANCE STANDARDS (NSPS)

Section 1. General Information

Date Submitted: 12/8/2016

1. Company Name: Nusenda Credit Union Ph: (505) 889-7755 Fax: None
2. Company Address: 10090 Coors Blvd. NW City: Albuquerque State: NM Zip: 87114
3. Company Mailing Address (if different): same as above Zip: same as above
4. Company Contact: Tom Johnson Title: AVP, Facilities & Construction Ph: (505) 872-5424 Email: tjohnson@nusenda.org
5. Facility Name: Nusenda Credit Union, Uptown Branch Facility Hours: 8am to 5pm for general business
6. Facility Address: 6501 Indian School Rd NE City: Albuquerque State: NM Zip: 87111
7. Local Business Mailing Address (if different): (same as above) Email: _____
8. Facility Environmental Contact: Tom Johnson Title: AVP, Facilities & Construction Ph: (505) 872-5424 Fax: None
9. Email Address: tjohnson@nusenda.org 10. Type of Business: Financial Credit Union
11. Environmental Consultant Name and E-Mail Address (if applicable): Vern Hershberger, vhershberger@trinityconsultants.com
12. North American Industry Classification System (NAICS): 522130 13. Standard Industrial Classification (SIC): 6061
14. UTM coordinates (required): Zone 13S, 356811.82 m E, 3885505.15 m N 15. Facility Ph: (505) 872-5424 Fax: None
16. Billing Contact: Tom Johnson Title: AVP, Facilities & Construction Ph: (505) 872-5424 Fax: None
17. Billing Address: 10090 Coors Blvd. NW City: Albuquerque State: NM Zip: 87114
18. Is this an Initial Installation; OR Modification of an Existing Unit: Initial installation 19. Current or requested operating hrs/yr: 500 hrs/yr
20. Is engine or genset installed: ____ Yes _X_ No If yes, date installed: ____/____/____ If no, anticipated installation date: after permit issued.

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. Spark Ignition Internal Combustion Engine for Stationary 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)
Engine	Cummins	QSJ5.9G-G1	TBD	TBD	N/A	84.7	N/A
Generator	Cummins	C50 N6	TBD	TBD	N/A	N/A	50

Section 3. Stack and Emissions Information

Stack Height Above Ground & Stack Diameter In Feet		Stack Temperature	Stack Flow Rate & Exit Direction
~7 ft. – approx. stack top height	~0.25 feet approx. diameter	~1,360 ^{0}F	~444 ft^3/min – Flow Rate Exit – upward

 Construction, Installation, or Operation of an engine or genset shall not take place until a 20.11.41 NMAC Air Quality permit is issued.

Section 4. Potential Emission Rate (Uncontrolled Emissions)

Use manufacturer's data, compliance performance stack test data or the attached USEPA Emission Factors 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	TIMES	Actual Engine Hp	EQUALS	Emission In Grams Per Hour	DIVIDE	Grams Per Pound	EQUALS	Emission in Pounds Per Hour	TIMES	Potential Operating Hours Per Year	DIVIDE	Pounds Per Ton	EQUALS	Emission In Tons Per Year
Likely ~2016	CO	386.9	x	84.7	=	32770.4	+	453.6	=	72.2	x	8760	+	2000	=	316.4
	NO_x	9.49	x	84.7	=	803.8	+	453.6	=	1.8	x	8760	+	2000	=	7.8
	VOC/ NMHC	0.50	x	84.7	=	42.3	+	453.6	=	0.093	x	8760	+	2000	=	0.41
	**SO_x	0.0025	x	84.7	=	0.22	+	453.6	=	0.00047	x	8760	+	2000	=	0.0021
	***PM	0.043	x	84.7	=	3.7	+	453.6	=	0.0081	x	8760	+	2000	=	0.035

* If the USEPA Emission Factor or manufacturer's data is given as combined NOx + NMHC, also provide individual emission factors for NOx and NMHC from the manufacturer or other approved methodology for estimating individual emission factors.

** Manufacturer's SOx factor shall be used when larger than the USEPA Emission Factor.

*** Particulate Matter (PM) emissions are considered to be < 1µm (micron). Therefore, PM emissions also reflect PM_{10} & $PM_{2.5}$.

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	TIMES	Requested Operating Hours Per Year	EQUALS	Pounds Per Year	DIVIDE	Pounds Per Ton	EQUALS	Emission In Tons Per Year
CO	72.2	X	500	=	36122.6	+	2000	=	18.1
NO_x	1.8	X	500	=	886.1	+	2000	=	0.44
VOC/NMHC	0.093	X	500	=	46.6	+	2000	=	0.023
**SO_x	0.00047	X	500	=	0.24	+	2000	=	0.00012
***PM	0.0081	X	500	=	4.0	+	2000	=	0.0020

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.

David Weidauer — Print Name

[signature] — Sign Name

Chief Retail Officer — Title

12 / 7 /2016 — Date

Construction, Installation, or Operation of an engine or genset shall not take place until a 20.11.41 NMAC Air Quality permit is issued.

Emissions Calculations Sheet

Nusenda Credit Union, Uptown Branch,

Cummins Model C50 N6, 50 KW Emergency Generator powered by a Cummins Model QSJ5.9G-G1 NSPS JJJJ Nat. Gas-Fired 5.88L Engine

UNCONTROLLED EMISSIONS (PER)

Pollutant	Emis. Factor (g/Hp-Hr)	Engine Power (Hp)	Emissions Rate (g/Hr)	Grams/pound (g/lb)	Emissions Rate (lb/Hr)	Annual Operation (Hrs/Yr)	Annual Emissions (Tons/Yr)
CO *	386.9	84.7	32770.4	453.6	72.2	8760	316.4
NOx *	9.49	84.7	803.8	453.6	1.8	8760	7.8
VOC/HC *	0.50	84.7	42.3	453.6	0.093	8760	0.41
SOx **	0.0025	84.7	0.22	453.6	0.00047	8760	0.0021
PM **	0.043	84.7	3.7	453.6	0.0081	8760	0.035

CONTROLLED EMISSIONS

Pollutant	Emis. Factor (g/Hp-Hr)	Engine Power (Hp)	Emissions Rate (g/Hr)	Grams/pound (g/lb)	Emissions Rate (lb/Hr)	Annual Operation (Hrs/Yr)	Annual Emissions (lb/Yr)	Annual Emissions (Tons/Yr)
CO *	386.9	84.7	32770.4	453.6	72.2	500	36122.6	18.1
NOx *	9.49	84.7	803.8	453.6	1.8	500	886.1	0.44
VOC/HC *	0.50	84.7	42.3	453.6	0.093	500	46.6	0.023
SOx **	0.0025	84.7	0.22	453.6	0.00047	500	0.24	0.00012
PM **	0.043	84.7	3.7	453.6	0.0081	500	4.0	0.0020

Notes: * = Emission factors are set slightly under NSPS JJJJ limits to accommodate Excel rounding calculated values and still be as high as possible for future compliance.
In the absence of spark ignition related guidance on NMHC + NOx splits, the 5% + 95% split from CARB's 6/28/04 guidance for diesel engines was used.
** = SOx & PM emission factors are based on the AP-42 natural gas combustion Table 3.2-2. Mfr. emission data were not available for SOx & PM.
Natural gas heat content of 1,000 Btu/scf.

Converting AP-42 Table 3.2-2 (7/00) SO2 & PM Emission Factor Calcs

Pollutant	AP-42 Emis. Factor 4SRB (lb/MMBtu)	Nat. gas Heat Content (Btu/scf)	Full Fuel Flow (lb/hr)	Nat. Gas Density (lb/cf)	Full Standby Fuel Consumpt'n (scf/hr)	Full Standby Engine (Hp)	Emis. Factor (lb/Hp-Hr)	Grams/pound (g/lb)	Emis. Factor (g/Hp-Hr)
SOx †	0.000588	1000	-	0.056	806.3	84.7	5.60E-06	453.6	2.54E-03
PM ††	0.010	1000	-	0.056	806.3	84.7	9.51E-05	453.6	4.31E-02

Notes: † = SO2 = SOx
†† = Total PM or PM = PM10 + Condensable

Power Generation

2016 EPA Exhaust Emission Compliance Statement C50 N6 standby

60 Hz Spark Ignited Generator Set

Compliance Information:

The engine used in this generator set complies with U.S. EPA emission regulations under the provisions of 40 CFR Part 60, Stationary Emergency Spark-Ignited emissions limits when tested on 6 mode cycle of Part 90

Engine Manufacturer:	Cummins Inc
EPA Certificate Number:	GCEXB05.9ARB-008
Effective Date:	9/3/2015
Date Issued:	9/3/2015
EPA Engine Family:	GCEXB05.9ARB

Engine Information:

Model: QSJ5.9G-G1

Engine Nameplate HP: Natural Gas 84.7, Propane 84.7

Type: 4 Cycle, In-line, 6 Cylinder

Aspiration: Naturally Aspirated

Compression Ratio: 8.5:1

Bore: 4.02 in. (102.1 mm)

Stroke: 4.72 in. (119.89 mm)

Displacement: 359 cu. in. (5.88 liters)

Emission Control Device: Electronic Air/Fuel Ratio Control and Closed-Loop Breather System

U.S. Environmental Protection Agency Stationary Emergency SI Emission Limits

Natural Gas and Propane Fuel Emission Limits	Grams per BHP-hr		Grams per kWm-hr	
	NOx + HC	CO	NOx + HC	CO
Test Results (**Natural Gas**)	4.81	66.04	6.4	88.5
Test Results (**Propane**)	6.96	84.5	9.3	113.3
EPA Emissions Limit	10.0	387.0	13.4	519.0

Note:
Tests conducted using alternate test methods, instrumentation, fuel or reference conditions can yield different results.
Engine operation with excessive air intake or exhaust restriction beyond published maximum limits, or with improper maintenance, may result in elevated emission levels.

to lean burn engines between 500 and SI natural gas engines greater than or preamble.

TABLE 4.—NO_X, CO, AND VOC EMISSION STANDARDS FOR STATIONARY SI ENGINES ≥100 HP (EXCEPT GASOLINE AND RICH BURN LPG), STATIONARY SI LANDFILL/DIGESTER GAS ENGINES, AND STATIONARY EMERGENCY ENGINES >25 HP

Engine type and fuel	Maximum engine power	Manufacture date	Emission standards[a]					
			g/HP-hr			ppmvd at 15% O_2		
			NO_X	CO	VOC	NO_X	CO	VOC
Non-Emergency SI Natural Gas and Non-Emergency SI Lean Burn LPG.	100≤HP<500	7/1/2008	2.0	4.0	1.0	160	540	86
		1/1/2011	1.0	2.0	0.7	82	270	60
Non-Emergency SI Lean Burn Natural Gas and LPG.	500≥HP<1,350	1/1/2008	2.0	4.0	1.0	160	540	86
		7/1/2010	1.0	2.0	0.7	82	270	60
Non-Emergency SI Natural Gas and Non-Emergency SI Lean Burn LPG (except lean burn 500≥HP<1,350).	HP≥500	7/1/2007	2.0	4.0	1.0	160	540	86
	HP≥500	7/1/2010	1.0	2.0	0.7	82	270	60
Landfill/Digester Gas (except lean burn 500≥HP<1,350).	HP<500	7/1/2008	3.0	5.0	1.0	220	610	80
		1/1/2011	2.0	5.0	1.0	150	610	80
	HP≥500	7/1/2007	3.0	5.0	1.0	220	610	80
		7/1/2010	2.0	5.0	1.0	150	610	80
Landfill/Digester Gas lean burn	500≥HP<1,350	1/1/2008	3.0	5.0	1.0	220	610	80
		7/1/2010	2.0	5.0	1.0	150	610	80
Emergency	25>HP<130	1/1/2009	[b]10	387	N/A	N/A	N/A	N/A
	HP≥130		2.0	4.0	1.0	160	540	86

[a] Owners and operators of stationary non-certified SI engines may choose to comply with the emission standards in units of either g/HP-hr or ppmvd at 15 percent O_2.

[b] The emission standards applicable to emergency engines between 25 HP and 130 HP are in terms of NO_X+HC.

Policy: CARB Emission Factors for CI Diesel Engines – Percent HC in Relation to NMHC + NOx

Policy

When the non-methane hydrocarbon (NMHC) and nitrogen oxide (NOx) emission factor is combined, assume a breakdown of 5% and 95%, respectively.

Effective date

June 28, 2004

Definitions

The following is a list of associated definitions.

- ***CI Engine*** – Compression Ignition Engine is an internal combustion engine with operating characteristics significantly similar to the theoretical diesel combustion cycle.
- ***HC*** – Organic compound consistently entirely of hydrogen and carbon.
- ***NMHC*** – Non-Methane Hydrocarbon is the sum of all hydrocarbon air pollutants except methane.
- ***NOx*** – Nitrogen Oxides are compounds of nitric oxide (NO), nitrogen dioxide (NO_2), and other oxides of nitrogen, which are typically created during combustion processes.

Contact

Randy Frazier, x4672

Document Control

Version	Revised By	Description	Date
1.1	HL	New Policy: CARB Emission Factors – Percent HC in Relation to NMHC + NOx	06/28/04
1.2	MCL	Mapping of Policy	3/13/08

Approval

Name & Title	Signature	Date
Brian Bateman, Director of Engineering	**Signed by Brian Bateman**	2/28/2008

Power Generation

Exhaust Emission Data Sheet
C50 N6
60 Hz Spark Ignited Generator Set
EPA Emissions

Engine Information:

Model:	QSJ5.9G-G1	Bore:	4.02 in. (102.1 mm)
Type:	4 Cycle, In-line, 6 Cylinder	Stroke:	4.72 in. (119.89 mm)
Aspiration:	Naturally aspirated	Displacement:	359 cu. in. (5.88 liters)
Compression Ratio:	8.5:1		
Emission Control Device:	Electronic Air/Fuel Ratio Control and Closed-Loop Breather System		

	Natural Gas	Propane
PERFORMANCE DATA	**Standby**	**Standby**
BHP @ 1800 RPM (60 Hz)	84.7	84.7
Fuel Consumption (SCFH)	806.3	321.6
Air to Fuel Ratio	15.9	15.7
Exhaust Gas Flow (CFM)	443.8	411.1
Exhaust Gas Temperature (°F)	1359.7	1383.5
EXHAUST EMISSION DATA		
HC (Total Unburned Hydrocarbons)*	0.53	767
NOx (Oxides of Nitrogen as NO_2)	6.27	1316
CO (Carbon Monoxide)	75.38	33665
		Values are ppmvd
HC (Total Unburned Hydrocarbons)*	276	1.24
NOx (Oxides of Nitrogen as NO_2)	1564	4.83
CO (Carbon Monoxide)	22197	103.78
		Values are Grams per HP-Hour

*HC includes all NMHC, VOC, POC, and ROC constituents (Non-Methane HC, Volatile Organic Compounds, Precursor Organic Compounds, and Reactive Organic Compounds)

TEST CONDITIONS

Data was recorded during steady-state rated engine speed (± 25 RPM) with full load (±2%). Pressures, temperatures, and emission rates were stabilized.

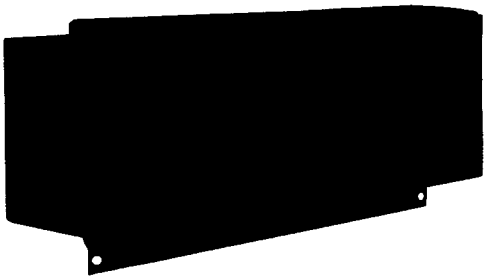
Fuel Specification:	
Natural Gas:	Dry gas as received from Supplier (1000 BTU/SCF).
Propane:	Meets the requirements for Commercial Grade Propane under the ASTM D1835 Standard Specification for Liquefied Gases
Fuel Temperature	60 ± 9 °F at Flow Transmitter
Fuel Pressure	14.73PSIA ± 0.5 PSIA at Flow Transmitter
Intake Air Temperature:	77 ± 9 °F at inlet
Barometric Pressure:	29.92 in. Hg ± 1 in. Hg
Humidity:	NOx measurement corrected to 75 grains H_2O/lb dry air

The NOx, HC, and CO emission data tabulated here were from a single engine under the test conditions shown above. These data are subjected to instrumentation and engine-to-engine variability. Field emission test data are not guaranteed to these levels. Actual field test results may vary due to test site conditions, installation, fuel specification, test procedures and instrumentation. Engine operation with excessive air intake or exhaust restriction beyond published maximum limit, or with improper maintenance, may results in elevated emission levels.

Specification sheet

Spark-ignited generator set

45–100 kW standby
EPA emissions



Description

Cummins Power Generation generator sets are fully integrated power generation systems providing optimum performance, reliability and versatility for stationary standby applications.

Features

Gas engine - Rugged 4-cycle Cummins QSJ5.9G spark-ignited engine delivers reliable power. The electronic air/fuel ratio control provides optimum engine performance and fast response to load changes.

Alternator - Several alternator sizes offer selectable motor starting capability with low reactance 2/3 pitch windings, low waveform distortion with non-linear loads and fault clearing short-circuit capability.

Control system - The PowerCommand® 1.1 electronic control is standard equipment and provides total generator set system integration including automatic remote starting/stopping, precise frequency and voltage regulation, alarm and status message display, output metering, auto-shutdown at fault detection and NFPA 110 Level 1 compliance. The PowerCommand® 2.3 control is also optional and is UL 508 Listed and provides AmpSentry® protection.

Cooling system - Standard cooling package provides reliable running at up to 50 °C (122 °F) ambient temperature.

Enclosures - The aesthetically appealing enclosure incorporates special designs that deliver one of the quietest generators of its kind. Aluminum material plus durable powder coat paint provides the best anti-corrosion performance. The generator set enclosure has been evaluated to withstand 180 MPH wind loads in accordance with ASCE7-10. The design has hinged doors to provide easy access for service and maintenance.

NFPA - The generator set accepts full rated load in a single step in accordance with NFPA 110 for Level 1 systems.

Warranty and service - Backed by a comprehensive warranty and worldwide distributor and dealer network.

	Natural Gas		Propane		
	Standby (60 Hz)		Standby (60 Hz)		Data sheets
Model	kW	kVA	kW	kVA	60 Hz
C45 N6	45	56	45	56	NAD-6093-EN
C50 N6	50	63	50	63	NAD-6094-EN
C60 N6	60	75	60	75	NAD-6095-EN
C70 N6	70	88	70	88	NAD-6096-EN
C80 N6	80	100	80	100	NAD-6097-EN
C100 N6	100	125	100	125	NAD-6098-EN

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Generator set specifications

Governor regulation class	ISO 8528 Part 1 Class G3
Voltage regulation, no load to full load	± 1.0%
Random voltage variation	± 1.0%
Frequency regulation	Isochronous
Random frequency variation	± 0.25% @ 60 Hz
Radio frequency emissions compliance	Meets requirements of most industrial and commercial applications

Engine specifications

Design	Naturally aspirated or turbo charged (varies by generator set model)
Bore	102.1 mm (4.02 in)
Stroke	119.9 mm (4.72 in)
Displacement	5.9 liters (359 in^3)
Cylinder block	Cast iron, in-line 6 cylinder
Battery capacity	850 amps at ambient temperature of 0 °F to 32 °F (-18 °C to 0 °C)
Battery charging alternator	52 amps
Starting voltage	12 volt, negative ground
Lube oil filter type(s)	Spin-on with relief valve
Standard cooling system	50 °C (122 °F) ambient cooling system
Rated speed	1800 rpm

Alternator specifications

Design	Brushless, 4 pole, drip proof, revolving field
Stator	2/3 pitch
Rotor	Direct coupled, flexible disc
Insulation system	Class H per NEMA MG1-1.65
Standard temperature rise	120 ºC (248 °F) standby
Exciter type	Torque match (shunt) with PMG as option
Alternator cooling	Direct drive centrifugal blower
AC waveform total harmonic distortion	< 5% no load to full linear load, < 3% for any single harmonic
Telephone influence factor (TIF)	< 50 per NEMA MG1-22.43
Telephone harmonic factor (THF)	<3%

Available voltages

1-phase	3-phase				
• 120/240	• 120/208	• 120/240	• 277/480	• 347/600	• 127/220

Generator set options

Fuel system
- ☐ Single fuel - natural gas or propane vapor, field selectable
- ☐ Dual fuel – natural gas and propane vapor auto changeover
- ☐ Low fuel gas pressure warning

Engine
- ☐ Engine air cleaner
- ☐ Shut down – low oil pressure
- ☐ Extension – oil drain
- ☐ Engine oil heater

Alternator
- ☐ 120 °C temperature rise alternator
- ☐ 105 °C temperature rise alternator
- ☐ PMG
- ☐ Alternator heater, 120V
- ☐ Reconnectable full 1 phase output alternator

Control
- ☐ AC output analog meters
- ☐ Stop switch – emergency
- ☐ Auxiliary output relays (2)
- ☐ Auxiliary configurable signal inputs (8) and relay outputs (8)

Electrical
- ☐ One, two or three circuit breaker configurations
- ☐ 80% rated circuit breakers
- ☐ 100% rated LSI circuit breakers
- ☐ Battery charger

Enclosure
- ☐ Aluminum enclosure Sound Level 1 or Level 2, sandstone or green color
- ☐ Aluminum weather protective enclosure with muffler installed, green color

Cooling system
- ☐ Shutdown – low coolant level
- ☐ Warning – low coolant level
- ☐ Extension – coolant drain
- ☐ Coolant heater options:
  - o <4 °C (40 °F) – cold weather
  - o <-17 °C (0 °F) – extreme cold

Exhaust system
- ☐ Exhaust connector NPT
- ☐ Exhaust muffler mounted

Generator set application
- ☐ Base barrier – elevated genset
- ☐ Battery rack, standard battery
- ☐ Battery rack, larger battery
- ☐ Radiator outlet duct adapter

Warranty
- ☐ Base warranty – 2 year/400 hours, standby
- ☐ 3 year standby warranty options
- ☐ 5 year standby warranty options

Generator set accessories

- ☐ Coolant heaters – 1000W / 1500W
- ☐ Battery rack, standard/larger battery
- ☐ Battery heater kit
- ☐ Engine oil heater
- ☐ Remote control displays
- ☐ Auxiliary output relays (2)
- ☐ Auxiliary configurable signal inputs (8) and relay outputs (8)
- ☐ Annunciator – RS485
- ☐ Remote monitoring device – PowerCommand 500/550
- ☐ Battery charger – stand-alone, 12V
- ☐ Circuit breakers
- ☐ Enclosure Sound Level 1 to Sound Level 2 upgrade kit
- ☐ Base barrier – elevated generator set
- ☐ Mufflers – industrial, residential or critical
- ☐ Alternator PMG
- ☐ Alternator heater

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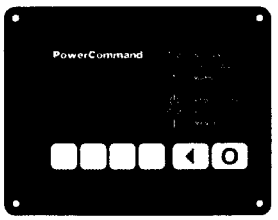
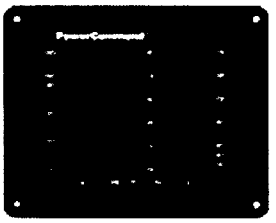
Control system PowerCommand 1.1





PowerCommand control is an integrated generator set control system providing voltage regulation, engine protection, operator interface and isochronous governing (optional). Major features include:

- Battery monitoring and testing features and smart starting control system.
- Standard PCCNet interface to devices such as remote annunciator for NFPA 110 applications.
- Control boards potted for environmental protection.
- Control suitable for operation in ambient temperatures from -40 ℃ to +70 ℃ (-40 ℉ to +158 ℉) and altitudes to 5000 meters (13,000 feet).
- Prototype tested; UL, CSA, and CE compliant.
- InPower™ PC-based service tool available for detailed diagnostics.

Operator/display panel

- Manual off switch
- Alpha-numeric display with pushbutton access for viewing engine and alternator data and providing setup, controls and adjustments (English or international symbols)
- LED lamps indicating generator set running, not in auto, common warning, common shutdown, manual run mode and remote start
- Suitable for operation in ambient temperatures from -40 °C to +70 °C
- Bargraph display (optional)

AC protection

- Over current warning and shutdown
- Over and under voltage shutdown
- Over and under frequency shutdown
- Over excitation (loss of sensing) fault
- Field overload

Engine protection

- Overspeed shutdown
- Low oil pressure warning and shutdown
- High coolant temperature warning and shutdown
- Low coolant level warning or shutdown
- Low coolant temperature warning
- High, low and weak battery voltage warning
- Fail to start (overcrank) shutdown
- Fail to crank shutdown
- Redundant start disconnect
- Cranking lockout
- Sensor failure indication
- Low fuel level warning or shutdown

Alternator data

- Line-to-line and Line-to-neutral AC volts
- 3-phase AC current
- Frequency
- Total kVa

Engine data

- DC voltage
- Lube oil pressure
- Coolant temperature
- Engine speed

Other data

- Generator set model data
- Start attempts, starts, running hours
- Fault history
- RS485 Modbus® interface
- Data logging and fault simulation (requires InPower service tool)

Digital governing (optional)

- Integrated digital electronic isochronous governor
- Temperature dynamic governing

Digital voltage regulation

- Integrated digital electronic voltage regulator
- 2-phase line-to-line sensing
- Configurable torque matching

Control functions

- Time delay start and cooldown
- Cycle cranking
- PCCNet interface
- (2) Configurable inputs
- (2) Configurable outputs
- Remote emergency stop
- Automatic transfer switch (ATS) control
- Generator set exercise, field adjustable

Options

- ☐ Auxiliary output relays (2)
- ☐ Remote annunciator with (3) configurable inputs and (4) configurable outputs
- ☐ PMG alternator excitation
- ☐ PowerCommand 500/550 for remote monitoring and alarm notification (accessory)
- ☐ Auxiliary, configurable signal inputs (8) and configurable relay outputs (8)
- ☐ Digital governing
- ☐ AC output analog meters (bargraph)
  - Color-coded graphical display of:
    - 3-phase AC voltage
    - 3-phase current
    - Frequency
    - kVa
- ☐ Remote operator panel
- ☐ PowerCommand® 2.3 control with AmpSentry® protection

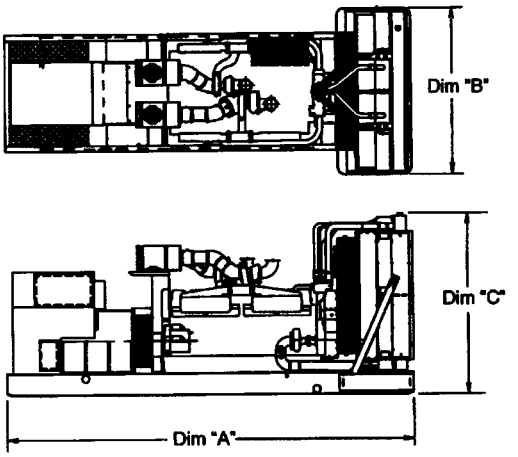
Ratings definitions

Emergency standby power (ESP):
Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) is in accordance with ISO 8528. Fuel Stop power in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.

Limited-time running power (LTP):
Applicable for supplying power to a constant electrical load for limited hours. Limited Time Running Power (LTP) is in accordance with ISO 8528.

Prime power (PRP):
Applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528. Ten percent overload capability is available in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.

Base load (continuous) power (COP):
Applicable for supplying power continuously to a constant electrical load for unlimited hours. Continuous Power (COP) in accordance with ISO 8528, ISO 3046, AS 2789, DIN 6271 and BS 5514.



This outline drawing is for reference only. See respective model data sheet for specific model outline drawing number.

Do not use for installation design

Model	Dim "A" mm (in.)	Dim "B" mm (in.)	Dim "C" mm (in.)	Set Weight*wet kg (lbs.)
		Open Set		
C45 N6	2489 (98)	1016 (40)	1473 (58)	989 (2180)
C50 N6	2489 (98)	1016 (40)	1473 (58)	989 (2180)
C60 N6	2489 (98)	1016 (40)	1473 (58)	1103 (2431)
C70 N6	2489 (98)	1016 (40)	1473 (58)	1111 (2449)
C80 N6	2489 (98)	1016 (40)	1473 (58)	1173 (2587)
C100 N6	2489 (98)	1016 (40)	1473 (58)	1233 (2719)
		Weather Protective Enclosure		
C45 N6	2489 (98)	1016 (40)	1473 (58)	1070 (2359)
C50 N6	2489 (98)	1016 (40)	1473 (58)	1070 (2359)
C60 N6	2489 (98)	1016 (40)	1473 (58)	1184 (2610)
C70 N6	2489 (98)	1016 (40)	1473 (58)	1192 (2628)
C80 N6	2489 (98)	1016 (40)	1473 (58)	1255 (2766)
C100 N6	2489 (98)	1016 (40)	1473 (58)	1315 (2898)
		Sound Attenuated Enclosure Level 1		
C45 N6	3023 (119)	1016 (40)	1473 (58)	1114 (2455)
C50 N6	3023 (119)	1016 (40)	1473 (58)	1114 (2455)
C60 N6	3023 (119)	1016 (40)	1473 (58)	1227 (2706)
C70 N6	3023 (119)	1016 (40)	1473 (58)	1236 (2724)
C80 N6	3023 (119)	1016 (40)	1473 (58)	1298 (2862)
C100 N6	3023 (119)	1016 (40)	1473 (58)	1358 (2994)
		Sound Attenuated Enclosure Level 2		
C45 N6	3454 (136)	1016 (40)	1473 (58)	1127 (2485)
C50 N6	3454 (136)	1016 (40)	1473 (58)	1127 (2485)
C60 N6	3454 (136)	1016 (40)	1473 (58)	1241 (2736)
C70 N6	3454 (136)	1016 (40)	1473 (58)	1249 (2754)
C80 N6	3454 (136)	1016 (40)	1473 (58)	1312 (2892)
C100 N6	3454 (136)	1016 (40)	1473 (58)	1372 (3024)

* Weights above are average. Actual weight varies with product configuration.

Codes and standards

Codes or standards compliance may not be available with all model configurations – consult factory for availability.

	The Prototype Test Support (PTS) program verifies the performance integrity of the generator set design. Cummins Power Generation products bearing the PTS symbol meet the prototype test requirements of NFPA 110 for Level 1 systems.		This generator set is designed in facilities certified to ISO 9001 and manufactured in facilities certified to ISO 9001 or ISO 9002.
			The generator set is available Listed to UL 2200, Stationary Engine Generator Assemblies.
International Building Code	The generator set is certified to International Building Code (IBC) 2012.		All low voltage models are CSA certified to product class 4215-01.
		U.S. EPA	Engine certified to U.S. EPA SI Stationary Emission Regulation 40 CFR, Part 60.

Warning: Back feed to a utility system can cause electrocution and/or property damage. Do not connect to any building's electrical system except through an approved device or after building main switch is open.

North America
1400 73rd Avenue N.E.
Minneapolis, MN 55432
USA

Phone 763 574 5000
Fax 763 574 5298

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NAS-6092b-EN (8/16)

Power Generation

power.cummins.com

Rocky Mountain

Cummins Rocky Mountain LLC
1921 Broadway NE
Albuquerque, NM 87102
505.247.2441 office 505.243.6689 fax

Air Quality Permit Requisition

Project#:
Project name: l

1. **Address of where generator set is to be located.**
   (Please include the actual name of the company/corporation.)

   6501 Indian School Rd NE

   Albuquerque, NM 87111

2. **Contact information for Facility**
   Name: Tom Johnson

   Office #: (505) 872-5424

   Cell # (505) 331-1062

   Email: tjohnson@nusenda.org

3. **Name and contact info of individual that can sign the air permit for the Company purchasing the generator.**

   Name: David Weidauer

   Official title: Chief Retail Officer

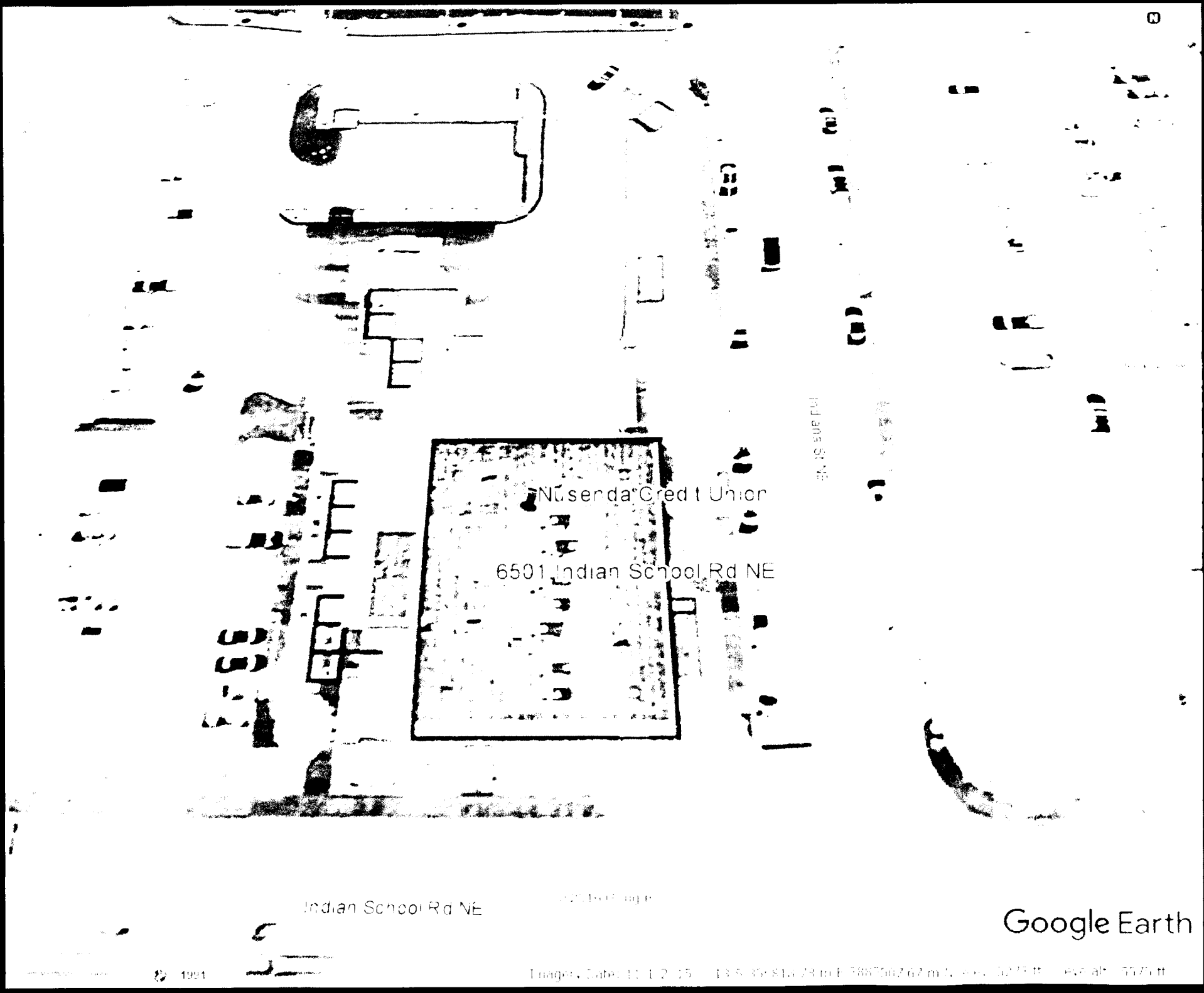
   Phone: (505) 889-5106

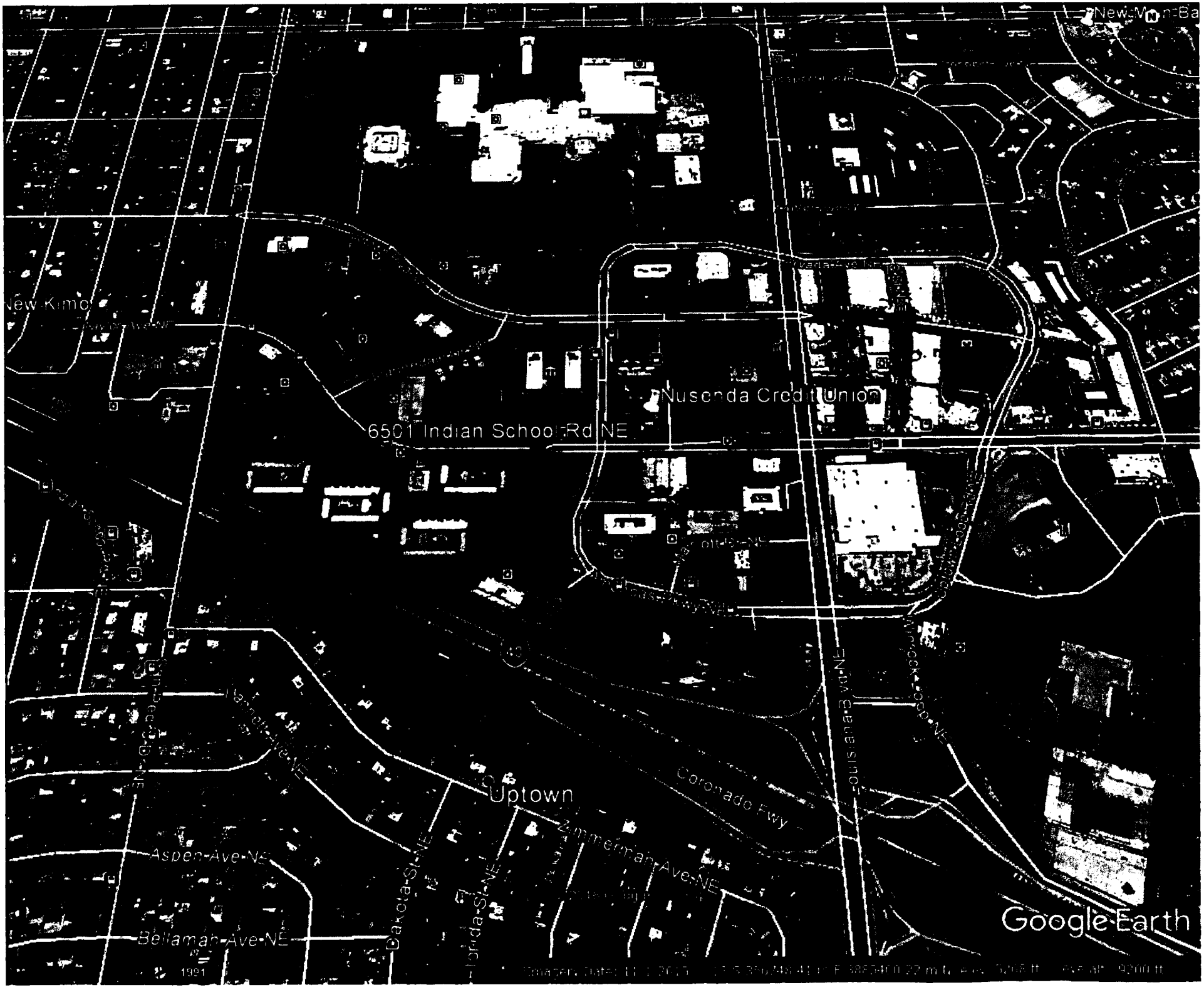
   Fax #: (505) 224-9757

   Email: dweidauer@nusenda.org

4. Planned use for generator.
   _x_ Standby
   ___ Prime
   ___ Continuous
   ___ Peak Shaving

5. Engine information (to be provided by Cummins)
   Engine Model: _____
   Nameplate HP: _____
   Serial Number: _____
   Date of MFG: _____


Nuserda Credit Union
6501 Indian School Rd NE
Indian School Rd NE
Google Earth


6501 Indian School Rd NE
Nusenda Credit Union
Uptown
Coronado Fwy
Aspen Ave NE
Bellamah Ave NE
Dakota St NE
Florida St NE
Zimmerman Ave NE
Louisiana Blvd NE
Wyoming Blvd NE
Google Earth

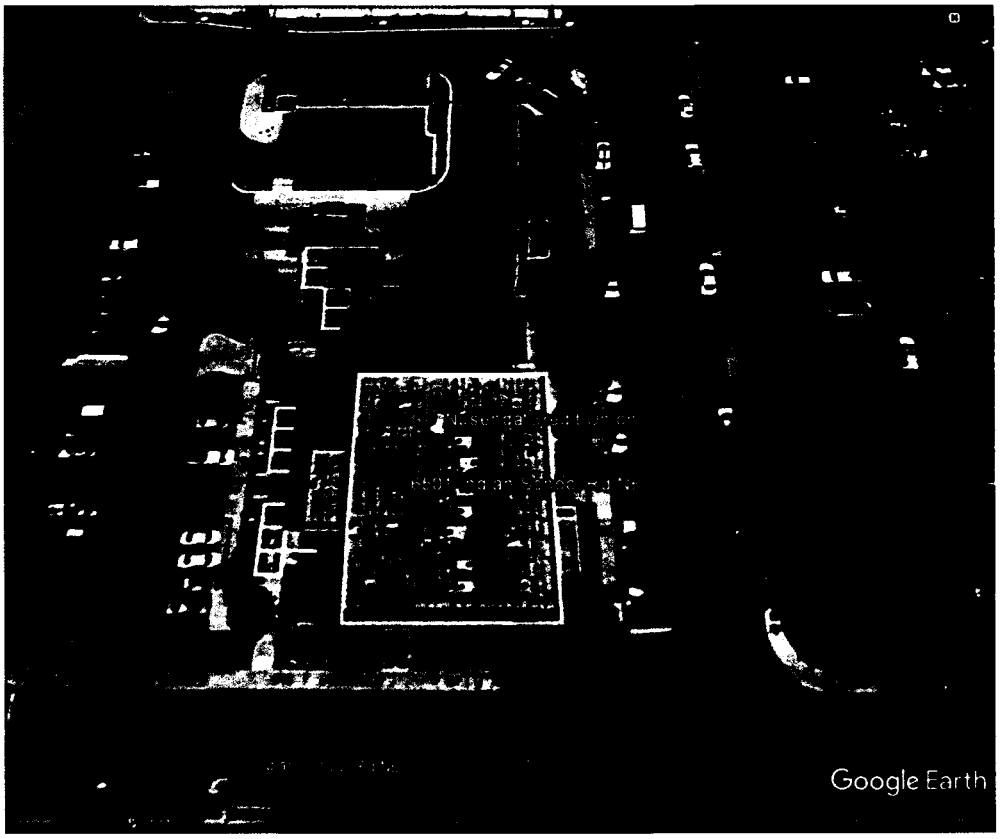
Pre-Permit Application Meeting Request Form

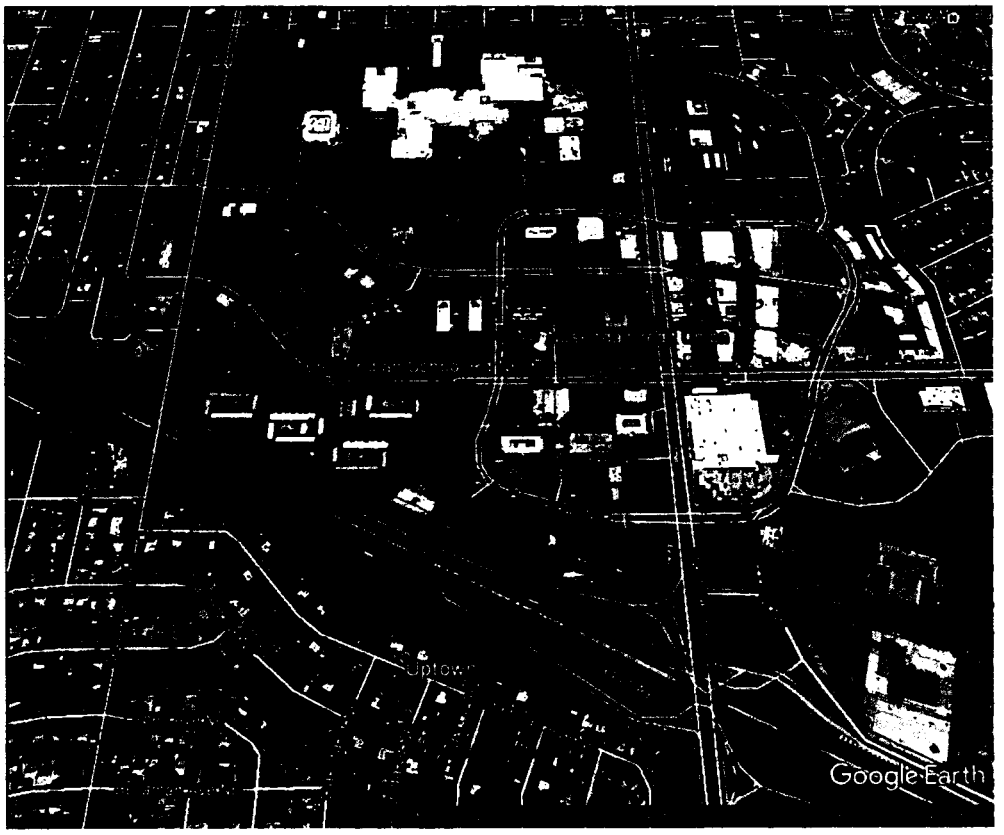
Air Quality Program- Environmental Health Department

Please complete appropriate boxes and email to aqd@cabq.gov or mail to:

Environmental Health Department
Air Quality Program
P.O. Box 1293
Room 3047
Albuquerque, NM 87103

Names:	Vern Hershberger of Trinity Consultants
Company/Organization:	Cummins Rocky Mountain, on behalf of Nusenda Credit Union
Point of Contact: Vern Hershberger (phone number and email): **Preferred form of contact (circle one):** (Phone) E-mail	Phone: 269-8343 Email: vhershberger@trinityconsultants.com mrosado@trinityconsultants.com
Preferred meeting date/times:	Over the phone & email November 21, 22 or 23rd. When Vern is out, Milton Rosado at Trinity (266-6611) is the sub for Cummins generator air quality projects.
Description of Project: The pending Construction Permit app. is for the proposed installation of a new 50 KW Cummins natural gas-fired standby emergency generator to back up commercial utility power for the Nusenda Credit Union branch. This facility is located at 6501 Indian School Rd NE, Albuquerque, NM 87111. Please refer to the Google Earth aerial pics and UTM coordinates in the application for the precise location	Please email to Vern at Trinity the list of NA and CA reps within ½ mile of the facility located at 6501 Indian School Rd NE, Albuquerque, NM.





City of Albuquerque- Environmental Health Department
Air Quality Program- Permitting Section
Phone: (505) 768-1972 Email: aqd@cabq.gov

City of Albuquerque

Environmental Health Department
Air Quality Program

Pre-Permit Application Meeting Checklist

Any person seeking a permit under 20.11.41 NMAC, Authority-to-Construct Permits, shall do so by filing a written application with the Department. Prior to submitting an application, the applicant shall contact the department in writing and request a pre-application meeting for information regarding the contents of the application and the application process. This checklist is provided to aid the applicant and **a copy must be submitted with the application.**

Applications that are ruled incomplete because of missing information will delay any determination or the issuance of the permit. The Department reserves the right to request additional relevant information prior to ruling the application complete in accordance with 20.11.41 NMAC.

Name: Nusenda Credit Union
Contact: Tom Johnson
Phone: (505) 872-5424 Email: tjohnson@nusenda.org
Company/Business: Financial Credit Union.

☑ Fill out and submit a Pre-Permit Application Meeting Request form
⇒ Available online at http://www.cabq.gov/airquality
Submitted filled out form to AQP via email

☑ Emission Factors and Control Efficiencies
Notes: NSPS Subpart JJJJ for NOx, CO & VOCs for a new emergency natural gas engine. SOx & PM based on AP42 Table 3.2-2. See cover letter and application form for further details.

☑ Air Dispersion modeling guidelines and protocol
Notes: NA, new standby emergency backup engine.

☑ Department Policies
Notes: Included the EPA Certificate of Conformity in permit app. in lieu of stack testing new emergency generator.

☑ Air quality permit fees
Notes: Based on 2016 Fee Checklist should be $2,720.00 for >5 tpy emissions <25 tpy. Paid with a check for that amount submitted with application.

City of Albuquerque- Environmental Health Department
Air Quality Program- Permitting Section
Phone: (505) 768-1972 Email: aqd@cabq.gov

☑ Public notice requirements – will do and document before applying for Construction Permit.

- ☐ Replacement Part 41 Implementation
  - ☐ *20.11.41.*13 B. Applicant's public notice requirements
    - ☑ Providing public notice to neighborhood association/coalitions
      - Neighborhood associations:
        - ABQ Park Neighborhood Assoc.
        - Alvarado Park Neighborhood Assoc.
        - Classic Uptown Neighborhood Assoc.
        - Inez Neighborhood Assoc.
        - Jerry Cline Park Neighborhood Assoc.
        - Mark Twain Neighborhood Assoc.
        - Quigley Park Neighborhood Assoc.
        - Snow Heights Neighborhood Assoc.
        - Winrock South Neighborhood Assoc.
        - Winrock Villas Condo. Assoc.

      - Coalitions:
        - District 6 Coalition of Neighborhood Associations.

    - ☑ Posting and maintaining a weather-proof sign
      Notes: Posted sign on-site. See attached sign photos.

☑ Regulatory timelines

- 30 days to rule application complete
- 90 days to issue completed permit
- Additional time allotted if there is significant public interest and/or a significant air quality issue
  - Public Information Hearing
  - Complex permitting action

Notes:

City of Albuquerque- Environmental Health Department
Air Quality Program- Permitting Section
Phone: (505) 768-1972 Email: aqd@cabq.gov

Notice of Intent to Construct

Under 20.11.41.13B NMAC, the owner/operator is required to *provide public notice by certified mail or electronic mail to the designated representative(s) of the recognized neighborhood associations and recognized coalitions that are with-in one-half mile of the exterior boundaries of the property on which the source is or is proposed to be located* if they propose to construct or establish a new facility or make modifications to an existing facility that is subject to 20.11.41 NMAC – Construction Permits. **A copy of this form must be included with the application.**

Applicant's Name and Address: Nusenda Credit Union, 10090 Coors Blvd. NW, Albuquerque, NM 87114

Owner / Operator's Name and Address: Nusenda Credit Union, 10090 Coors Blvd. NW, Albuquerque, NM 87114

Actual or Estimated Date the Application will be submitted to the Department: December 2016

Exact Location of the Source or Proposed Source: Nusenda Credit Union, Uptown Branch, 6501 Indian School Rd NE, Albuquerque, NM 87111

Description of the Source: New 50 KW emergency generator to provide backup electrical power to building during rare PNM utility outages.

Nature of the Business: Financial Credit Union

Process or Change for which the permit is requested: Install a new Cummins emergency generator.

Preliminary Estimate of the Maximum Quantities of each regulated air contaminant the source will emit:

Initial ATC Permit

	Pounds Per Hour (lbs/hr)	Tons Per Year (tpy)
CO	72.2	18.1
NOx	1.8	0.44
SO2	0.00047	0.00012
VOC	0.093	0.023
TSP	0.0081	0.0020
PM10	0.0081	0.0020
PM2.5	0.0081	0.0020
VHAP	N/A	N/A

Net Changes In Emissions – N/A

(Only for permit Modifications or Technical Revisions)

	lbs/hr	tpy	Estimated Total TPY
CO	--	--	--
NOx	--	--	--
SO2	--	--	--
VOC	--	--	--
TSP	--	--	--
PM10	--	--	--
PM2.5	--	--	--
VHAP	--	--	--

Maximum Operating Schedule: less than 500 hours per year for the new emergency generator.

Normal Operating Schedule: far less than 500 hours per year for the new emergency generator.

City of Albuquerque- Environmental Health Department
Air Quality Program- Permitting Section
Phone: (505) 768-1972 Email: aqd@cabq.gov

Current Contact Information for Comments and Inquires:

Name: Tom Johnson, AVP, Facilities & Construction

Address: Nusenda Credit Union, 10090 Coors Blvd. NW, Albuquerque, NM 87114

Phone Number: (505) 872-5424

E-Mail Address: tjohnson@nusenda.org

If you have any comments about the construction or operation of the above facility, and you want your comments to be made as part of the permit review process, you must submit your comments in writing to the address below:

Environmental Health Manager

Stationary Source Permitting

Albuquerque Environmental Health Department

Air Quality Program

PO Box 1293

Albuquerque, New Mexico 87103

(505) 768-1972

Other comments and questions may be submitted verbally.

Please refer to the company name and facility name, as used in this notice or send a copy of this notice along with your comments, since the Department may not have received the permit application at the time of this notice. Please include a legible mailing address with your comments. Once the Department has performed a preliminary review of the application and its air quality impacts, if required, the Department's notice will be published in the legal section of the Albuquerque Journal and mailed to neighborhood associations and neighborhood coalitions near the facility location or near the facility proposed location.

Richard J. Berry, Mayor

Environmental Health Department
Air Quality Program
Interoffice Memorandum

Mary Lou Leonard, Director

TO: VERN HERSHBERGER, TRINITY CONSULTANTS

FROM: YOLANDA MONTOYA, SENIOR ADMINISTRATIVE ASSISTANT

SUBJECT: DETERMINATION OF NEIGHBORHOOD ASSOCATIONS AND COALITIONS WITHIN 0.5 MILES OF 6501 INDIAN SCHOOL RD NE, ALBUQUERQUE, NM 87111

DATE: NOVEMBER 28, 2016

DETERMINATION:

On November 21, 2016 I used the City of Albuquerque Zoning Advanced Map Viewer (http://sharepoint.cabq.gov/gis) to review which City of Albuquerque (COA) Neighborhood Associations (NAs) and Neighborhood Coalitions (NCs) are located within 0.5 miles of 6501 Indian School Rd. NE, Albuquerque, NM 87111 in Bernalillo County, NM.

I then used the City of Albuquerque Office of Neighborhood Coordination's Monthly Master NA List dated November 4, 2016 to determine the contact information for each NA and NC located within 0.5 miles of 6501 Indian School Rd. NE, Albuquerque in Bernalillo County, NM.
(X:\ENVIRONMENTAL HEALTH\SHARE\EH-Staff\Permitting Section\Neighborhood Association Lists\2016\November)

From http://sharepoint.cabq.gov/gis using the zoning advanced map viewer and the list of NAs and NCs from CABQ Office of Neighborhood Coordination:

COA Association or Coalition	Name	Email or Mailing Address
ABQ Park N.A.	Alex W. Morgan	amorrealty@aol.com
ABQ Park N.A.	James Sundsmo	7501 Prospect Ave. NE Albuquerque, NM 87110
Alvarado Park N.A.	Darcy Bushnell	dmc793@aol.com
Alvarado Park N.A.	Elissa M Dente	elissa.dente@gmail.com
Alvarado Park N.A.	N.A. email	apna87110@gmail.com
Classic Uptown N.A.	David Haughawout	phoebe99999@comcast.net
Classic Uptown N.A.	Robert Lah	robtlah@yahoo.com
Classic Uptown N.A.	N.A. email	cuna@comcast.net
District 7 Coalition of N.A.'s	Janice Arnold-Jones	jearnoldjones@aol.com
District 7 Coalition of N.A.'s	Lynne Martin	lmartin900@aol.com
Inez N.A.	Evelyn Feltner	wren59felt@hotmail.com
Inez N.A.	Donna Yetter	donna.yetter3@gmail.com
Jerry Cline Park N.A.	Mollie Papen	mollienm@gmail.com
Jerry Cline Park N.A.	Cindy Griesmeyer	cindygriesmeyer@gmail.com
Jerry Cline Park N.A.	N.A. email	jcpna@aol.com
Mark Twain N.A.	Barbara Lohbeck	bardean12@comcast.net
Mark Twain N.A.	Noreen Bladergroen	nkb.bos@comcast.net
Quigley Park N.A.	Danielle Crouch	dshipley8@gmail.com
Quigley Park N.A.	Eric Olivas	eoman505@gmail.com
Snow Heights N.A.	Laura Garcia	laurasmigi@aol.com
Snow Heights N.A.	Julie Nielsen	bjdniels@msn.com
Winrock South N.A.	John and Virginia Kinney	7110 Constitution Ave NE Albuquerque, NM 87110-7122

Vern Hershberger

From: Vern Hershberger
Sent: Thursday, December 01, 2016 11:46 AM
To: 'amorrealty@aol.com'; 'dmc793@aol.com'; 'elissa.dente@gmail.com'; 'apna87110 @gmail.com'; 'phoebe99999@comcast.net'; 'robtlah@yahoo.com'; 'cuna@comcast.net'
Cc: Eyerman, Regan V.; 'Garrett Eldridge'; Milton Rosado; 'tjohnson@nusenda.org'
Subject: RE: 20.11.41 NMAC required pre-permit application notice to neighborhood
Attachments: Nusenda NOI form_1.0.pdf

Dear Neighborhood Association/Coalition Representative,

The local air quality Construction Permit regulation 20.11.41 NMAC requires that registered representatives of neighborhood associations and coalitions within about a half mile of a facility proposing to apply for an air quality permit application be notified in advance of permit application. Therefore, you are receiving the required attached public notice regarding the Nusenda Credit Union's proposed air quality permit application for a new 50KW natural gas-fired emergency generator at their Uptown Branch to provide backup power during rare PNM electrical outages.

The Nusenda's Uptown Branch is located at 6501 Indian School Rd NE, Albuquerque, NM 87111. Please see the attached *Notice of Intent to Construct* form for more information and directions if you might have related comments or questions.

Regards,

Vern Hershberger

Vern Hershberger, CHMM LEED AP | Senior Consultant | Trinity Consultants | 9400 Holly Blvd NE, Building 3, Suite 300 | Albuquerque, NM 87122 |

Trinity Consultants

Vern Hershberger

From:	Vern Hershberger
Sent:	Thursday, December 01, 2016 11:57 AM
To:	'jearnoldjones@aol.com'; 'lmartin900@aol.com'; 'wren59felt@hotmail.com'; 'donna.yetter3@gmail.com'; 'mollienm@gmail.com'; 'cindygriesmeyer@gmail.com'; 'jcpna@aol.com'
Cc:	Eyerman, Regan V.; 'Garrett Eldridge'; Milton Rosado; 'tjohnson@nusenda.org'
Subject:	RE: 20.11.41 NMAC required pre-permit application notice to neighborhood
Attachments:	Nusenda NOI form_1.0.pdf

Dear Neighborhood Association/Coalition Representative,

The local air quality Construction Permit regulation 20.11.41 NMAC requires that registered representatives of neighborhood associations and coalitions within about a half mile of a facility proposing to apply for an air quality permit application be notified in advance of permit application. Therefore, you are receiving the required attached public notice regarding the Nusenda Credit Union's proposed air quality permit application for a new 50 KW natural gas-fired emergency generator at their Uptown Branch to provide backup power during rare PNM electrical outages.

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Regards,

Vern Hershberger

Vern Hershberger, CHMM LEED AP | Senior Consultant | Trinity Consultants | 9400 Holly Blvd NE, Building 3, Suite 300 | Albuquerque, NM 87122 |

Trinity Consultants

Vern Hershberger

From: Vern Hershberger
Sent: Thursday, December 01, 2016 12:35 PM
To: 'eoman505@gmail.com'; 'bardean12@comcast.net'; 'nkb.bos@comcast.net'; 'dshipley8@gmail.com'; 'laurasmigi@aol.com'; 'bjdniels@msn.com'; 'wvbdavidely@gmail.com'; 'wvcondos@comcast.net'
Cc: Eyerman, Regan V.; 'Garrett Eldridge'; Milton Rosado; 'tjohnson@nusenda.org'
Subject: RE: 20.11.41 NMAC required pre-permit application notice to neighborhood with form attached
Attachments: Nusenda NOI form_1.0.pdf

Dear Neighborhood Association/Coalition Representative,

The local air quality Construction Permit regulation 20.11.41 NMAC requires that registered representatives of neighborhood associations and coalitions within about a half mile of a facility proposing to apply for an air quality permit application be notified in advance of permit application. Therefore, you are receiving the required attached public notice regarding the Nusenda Credit Union's proposed air quality permit application for a new 50 KW natural gas-fired emergency generator at their Uptown Branch to provide backup power during rare PNM electrical outages.

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Regards,

Vern Hershberger

Vern Hershberger, CHMM LEED AP | Senior Consultant | Trinity Consultants | 9400 Holly Blvd NE, Building 3, Suite 300 | Albuquerque, NM 87122 |

Trinity Consultants

City of Albuquerque

Environmental Health Department
Air Quality Program

Public Notice Sign Guidelines

Any person seeking a permit under 20.11.41 NMAC, Authority-to-Construct Permits, shall do so by filing a written application with the Department. *Prior to submitting an application, the applicant shall post and maintain a weather-proof sign provided by the department. The applicant shall keep the sign posted until the department takes final action on the permit application; if an applicant can establish to the department's satisfaction that the applicant is prohibited by law from posting, at either location required, the department may waive the posting requirement and may impose different notification requirements.* **A copy of this form must be submitted with your application.**

Applications that are ruled incomplete because of missing information will delay any determination or the issuance of the permit. The Department reserves the right to request additional relevant information prior to ruling the application complete in accordance with 20.11.41 NMAC.

Name: Nusenda Credit Union, Uptown Branch
Contact: Tom Johnson, AVP, Facilities & Construction
Phone: (505) 872-5424 Email: tjohnson@nusenda.org
Company/Business: Nusenda Credit Union/ Financial Credit Union.

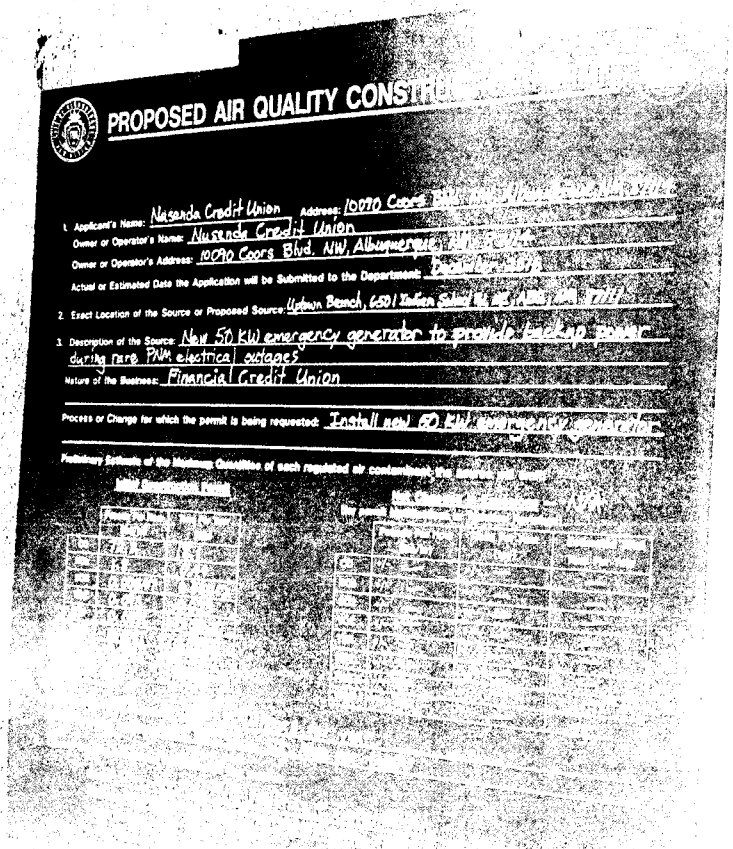
☐ ☑ The sign must be posted at the more visible of either the proposed or existing facility entrance (or, if approved in advance and in writing by the department, at another location on the property that is accessible to the public)

- ☐ ☑ The sign shall be installed and maintained in a condition such that members of the public can easily view, access, and read the sign at all times.
- ☐ ☑ The lower edge of the sign board should be mounted a minimum of 2' above the existing ground surface to facilitate ease of viewing

☐ ☑ Attach a picture of the completed, properly posted sign to this document

☐ ☐ **Check here if the department has waived the sign posting requirement.**
Alternative public notice details:

Ver. 11/13



PROPOSED AIR QUALITY CONSTR

1. Applicant's Name: Nusenda Credit Union Address: 10090 Coors
Owner or Operator's Name: Nusenda Credit Union
Owner or Operator's Address: 10090 Coors Blvd. NW, Albuquerque
Actual or Estimated Date the Application will be Submitted to the Department:
2. Exact Location of the Source or Proposed Source: Uptown Branch, 6501
3. Description of the Source: New 50 KW emergency generator to provide
during rare PNM electrical outages
Nature of the Business: Financial Credit Union
Process or Change for which the permit is being requested: Install new 60 KW
Preliminary Estimate of the Maximum Quantities of each regulated air pollutant

9400 Holly Avenue NE | Bldg 3, Suite 300 | Albuquerque, NM 87122 | P (505) 266-6611 | F (505) 266-7738
trinityconsultants.com

Trinity Consultants

December 6, 2016

Mr. Isreal Tavarez
Environmental Health Manager
Air Quality Program (AQP)
Environmental Health Department
PO Box 1293
Albuquerque, NM 87103

Re: Air Quality Permit Application for 50KW Emergency Generator at Nusenda Uptown Branch

Dear Mr. Tavarez,

Enclosed is an Authority-to-Construct permit application package for a proposed new 50 KW Generac natural gas-fired standby emergency generator to back up commercial utility power for the **Nusenda Credit Union** Uptown Branch. This facility is located at 6501 Indian School Rd NE, Albuquerque, NM 87111. Please refer to the Google Earth aerial pics and UTM coordinates in the application for the precise location.

The $2,720.00 check submitted for AQP review fees is sufficient to cover the new NSPS JJJJ engine and emissions between 5 to 25 tons per year that accommodates the proposed highest single pollutant (CO), since the NSPS JJJJ limit for that is relatively high at 387 g/hp-hr for the new 84.7 hp natural engine.

The NO_X, CO and VOC emissions used in the application are based on the 40 CRF Part 60 Subpart JJJJ Table 1 for ignition engines of less than 130 hp. The SO_2 and particulate matter, (PM) emissions were both calculated using the EPA AP-42 Emission Factors found under table 3.2-2 for Uncontrolled Emission Factors for 4-Stroke Lean-Burn Engines.

Given the early need for generator installation in this facility's project schedule, please expedite issuance of the permit.

If you have any related questions or suggestions, please contact me at VHershberger@trinityconsultants.com or by phone at (505) 269-8343 cell.

Thank you for your assistance,

TRINITY CONSULTANTS

Vernon Hershberger

Vernon Hershberger, CHMM, LEED AP
Sr. Consultant

Cc: Garrett Eldridge, Southern Region Sales, Cummins Rocky Mountain
Tom Johnson, AVP, Facilities & Construction, Nusenda Credit Union

City of Albuquerque

Environmental Health Department
Air Quality Program

Permit Application Checklist

Any person seeking a permit under 20.11.41 NMAC, Authority-to-Construct Permits, shall do so by filing a written application with the Department. Prior to ruling a submitted application complete each application submitted shall contain the required items listed below. **This checklist must be returned with the application.**

Applications that are ruled incomplete because of missing information will delay any determination or the issuance of the permit. The Department reserves the right to request additional relevant information prior to ruling the application complete in accordance with 20.11.41 NMAC.

All applicants shall:

1. ☑ Fill out and submit the *Pre-permit Application Meeting Request* form
   a. ☑ Attach a copy to this application

2. ☑ Attend the pre-permit application meeting
   a. ☑ Attach a copy of the completed *Pre-permit Application Meeting Checklist* to this application

3. ☑ Provide public notice to the appropriate parties
   a. ☑ Attach a copy of the completed *Notice of Intent to Construct* form to this form
   Neighborhood Association(s):
   i. ABQ Park Neighborhood Assoc.
   ii. Alvarado Park Neighborhood Assoc.
   iii. Classic Uptown Neighborhood Assoc.
   iv. Inez Neighborhood Assoc.
   v. Jerry Cline Park Neighborhood Assoc.
   vi. Mark Twain Neighborhood Assoc.
   vii. Quigley Park Neighborhood Assoc.
   viii. Snow Heights Neighborhood Assoc.
   ix. Winrock South Neighborhood Assoc.
   x. Winrock Villas Condo. Assoc.

   Coalition(s):
   xi. District 7 Coalition of Neighborhood Associations

   b. ☑ Attach a copy of the completed *Public Sign Notice Guideline* form

4. Fill out and submit the *Permit Application*. All applications shall:

A. ☑ be made on a form provided by the Department. Additional text, tables, calculations or clarifying information may also be attached to the form.

B. ☑ at the time of application, include documentary proof that all applicable permit application review fees have been paid as required by 20 NMAC 11.02. Please refer to the attached permit application worksheet.
A check for $2,720 payable to City of Albuquerque Fund 242" provided.

C. ☑ contain the applicant's name, address, and the names and addresses of all other owners or operators of the emission sources.

D. ☑ contain the name, address, and phone number of a person to contact regarding questions about the facility.

E. ☑ indicate the date the application was completed and submitted

F. ☑ contain the company name, which identifies this particular site.

G. ☑ contain a written description of the facility and/or modification including all operations affecting air emissions.

H. ☑ contain the maximum and standard operating schedules for the source after completion of construction or modification in terms of hours per day, days per week, and weeks per year.

I. ☑ provide sufficient information to describe the quantities and nature of any regulated air contaminant (including any amount of a hazardous air pollutant) that the source will emit during:
- Normal operation
- Maximum operation
- Abnormal emissions from malfunction, start-up and shutdown

J. ☑ include anticipated operational needs to allow for reasonable operational scenarios to avoid delays from needing additional permitting in the future.

K. ☑ contain a map, such as a 7.5-minute USGS topographic quadrangle, showing the exact location of the source; and include physical address of the proposed source.

L. ☑ contain an aerial photograph showing the proposed location of each process equipment unit involved in the proposed construction, modification, relocation, or technical revision of the source except for federal agencies or departments involved in national defense or national security as confirmed and agreed to by the department in writing.

M. ☑ contain the UTM zone and UTM coordinates.

N. ☑ include the four digit Standard Industrialized Code (SIC) and the North American Industrial Classification System (NAICS).

O. ☑ contain the types and **potential emission rate** amounts of any regulated air contaminants the new source or modification will emit. Complete appropriate sections of the application; attachments can be used to supplement the application, but not replace it.

P. ☑ contain the types and **controlled** amounts of any regulated air contaminants the new source or modification will emit. Complete appropriate sections of the application; attachments can be used to supplement the application, but not replace it.

Q. ☑ contain the basis or source for each emission rate (include the manufacturer's specification sheets, AP-42 Section sheets, test data, or other data when used as the source). *Cummins mfr. emissions data for specific Subpart IIII NSPS engine attached.*

R. ☑ contain all calculations used to estimate **potential emission rate** and **controlled** emissions.

S. N/A contain the basis for the estimated control efficiencies and sufficient engineering data for verification of the control equipment operation, including if necessary, design drawings, test reports, and factors which affect the normal operation (e.g. limits to normal operation).

T. ☑ contain fuel data for each existing and/or proposed piece of fuel burning equipment. *Pipeline quality natural gas fuel that is commercially available.*

U. N/A contain the anticipated maximum production capacity of the entire facility and the requested production capacity after construction and/or modification.

V. ☑ contain the stack and exhaust gas parameters for all existing and proposed emission stacks.

W. N/A provide an ambient impact analysis using a atmospheric dispersion model approved by the US Environmental Protection Agency (EPA), and the Department to demonstrate compliance with the ambient air quality standards for the City of Albuquerque and Bernalillo County (See 20.11.01 NMAC). If you are modifying an existing source, the modeling must include the emissions of the entire source to demonstrate the impact the new or modified source(s) will have on existing plant emissions.

X. N/A contain a preliminary operational plan defining the measures to be taken to mitigate source emissions during malfunction, startup, or shutdown.

Y. N/A contain a process flow sheet, including a material balance, of all components of the facility that would be involved in routine operations. Indicate all emission points, including fugitive points. E*mergency backup engine, simple process.*

Z. N/A contain a full description, including all calculations and the basis for all control efficiencies presented, of the equipment to be used for air pollution control. This shall include a process flow sheet or, if the Department so requires, layout and

assembly drawings, design plans, test reports and factors which affect the normal equipment operation, including control and/or process equipment operating limitations.

AA. N/A contain description of the equipment or methods proposed by the applicant to be used for emission measurement. *EPA Certificate of Conformity provided in lieu of stack testing the new emergency generator engine.*

BB. ☑ be signed under oath or affirmation by a corporate officer, authorized to bind the company into legal agreements, certifying to the best of his or her knowledge the truth of all information submitted.

City of Albuquerque

Environmental Health Department
Air Quality Program

Permit Application Review Fee Instructions

All source registration, authority-to-construct, and operating permit applications for stationary or portable sources shall be charged an application review fee according to the fee schedule in 20.11.2 NMAC. These filing fees are required for both new construction, reconstruction, and permit modifications applications. Qualified small businesses as defined in 20.11.2 NMAC may be eligible to pay one-half of the application review fees and 100% of all applicable federal program review fees.

Please fill out the permit application review fee checklist and submit with a check or money order payable to the "City of Albuquerque Fund 242" and either:

1. be delivered in person to the Albuquerque Environmental Health Department, 3rd floor, Suite 3023 or Suite 3027, Albuquerque-Bernalillo County Government Center, south building, One Civic Plaza NW, Albuquerque, NM or,

2. mailed to Attn: Air Quality Program, Albuquerque Environmental Health Department, P.O. Box 1293, Albuquerque, NM 87103.

The department will provide a receipt of payment to the applicant. The person delivering or filing a submittal shall attach a copy of the receipt of payment to the submittal as proof of payment Application review fees shall not be refunded without the written approval of the manager. If a refund is requested, a reasonable professional service fee to cover the costs of staff time involved in processing such requests shall be assessed. Please refer to 20.11.2 NMAC (effective January 10, 2011) for more detail concerning the "Fees" regulation as this checklist does not relieve the applicant from any applicable requirement of the regulation.