



**City of Albuquerque
Environmental Health Department
Air Quality Programs**

VERIZON WIRELESS

Invoice ID : **IN0006203**

Facility ID: **FA0003014**

A/R ID : **AR0005255**

Date	Permit #	Description	Amount
12/12/2016	1918	ABQ LOVELACE 1100 SAN MATEO BLVD SE -STATIONARY SOURCE REVIEW FEE 1 - 5 TPY	\$816.00
12/12/2016	1560-M1	KIRKLAND 8226 BROADWAY SE -40 CFR 60 STANDARD - FEDERAL REVIEW FEE	\$1,088.00
Due Date: 12/12/2016 Total Due for This Invoice:			\$1,904.00

NOTICE TO CUSTOMERS:

When you provide a check as payment, you authorize us either to use information from your check to make a one-time electronic fund transfer (ACH) from your account or to process the payment as a check transaction.

PAID

ITEMS OVER 120 DAYS PAST DUE MAY BE SENT TO COLLECTIONS

1-30 Days	31-60 Days	61-90 Days	91-120 Days	121+ Plus	Account Amount Due
\$ 1,904.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 1,904.00

PLEASE RETURN THE BOTTOM PORTION OF THIS INVOICE NOTICE WITH PAYMENT



City of Albuquerque

Environmental Health Department Air Quality Program



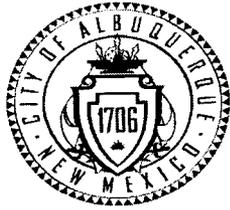
Permit Application Review Fee Instructions

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.

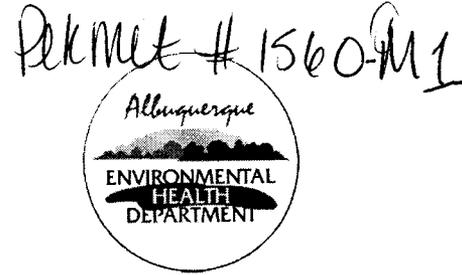
The department will provide a receipt of payment to the applicant. The person delivering or filing a submittal shall attach a copy of the receipt of payment to the submittal as proof of payment. Application review fees shall not be refunded without the written approval of the manager. If a refund is 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.



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	VERIZON WIRELESS (VAW) LLC		
Company Address	126 W GEMINI		
Facility Name	ABQ KIRKLAND		
Facility Address	8226 BROADWAY BLVD SE		
Contact Person	MICHELLE CHILDERS		
Contact Person Phone Number	(505) 232-4884 x126		
Are these application review fees for an existing permitted source located within the City of Albuquerque or Bernalillo County?	Yes	<input type="radio"/> No	
If yes, what is the permit number associated with this modification?	Permit #		
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	<input type="radio"/> 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	<i>Not Applicable</i>	<i>See Sections Below</i>	
Stationary Source Review Fees (Based on the Proposed Allowable Emission Rate for the single highest fee pollutant)			
X	Proposed Allowable Emission Rate Equal to or greater than 1 tpy and less than 5 tpy	\$ 816.00	2302
	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
	<i>Not Applicable</i>	<i>See Section Above</i>	
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
	<i>Not Applicable</i>	<i>Not Applicable</i>	

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	<i>Not Applicable</i>	<i>See Sections Below</i>	
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	<i>Not Applicable</i>	<i>See Section Above</i>	
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	<i>Not Applicable</i>	<i>Not Applicable</i>	
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	<i>Not Applicable</i>	<i>Not Applicable</i>	

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	<i>Not Applicable</i>	<i>See Sections II, III or V</i>	

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	<i>Not Applicable</i>	<i>See Sections II, III or V</i>	

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	\$ 1904.00
Section III Total	\$
Section IV Total	\$
Section V Total	\$
Total Application Review Fee	\$ 1904.00

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 2ND day of DECEMBER 20 216

MICHELLE CHILDERS

PERMIT COORDINATOR

Print Name

Print Title

Michelle Childers
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.



Richard J. Berry, Mayor

Environmental Health Department
Air Quality Program
Interoffice Memorandum



Mary Lou Leonard, Director

TO: MICHELLE CHILDERS
FROM: YOLANDA MONTOYA SENIOR ADMINISTRATIVE ASSISTANT
SUBJECT: DETERMINATION OF NEIGHBORHOOD ASSOCIATIONS AND COALITIONS WITHIN 0.5 MILES OF 8226 BROADWAY BLVD SE, ALBUQUERQUE, NM 87109
DATE: NOVEMBER 16, 2016

DETERMINATION:

On 11/16/2016 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) and which Bernalillo County (BC) NAs and NCs are located within 0.5 miles of 8226 Broadway Blvd SE, Albuquerque in Bernalillo County, NM.

I then used the City of Albuquerque Office of Neighborhood Coordination's Monthly Master NA List dated November 4, 2016 and the Bernalillo County Monthly Neighborhood Association November, 2016 Excel file to determine the contact information for each NA and NC located within 0.5 miles of 8226 Broadway Blvd SE, 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:

Neighborhood Association or Coalition	Name	Email Address
District 6 Coalition of NA	Nancy Bearce	nancymbearce@gmail.com
District 6 Coalition of NA	Gina Dennis	ginadennis@elerience.com
Mountain View Community Action	Marla Painter	marladesk@gmail.com
Mountain View Community Action	Maria Globus	mlglobus@gmail.com
Mountain View NA	Nora Garcia	ngarcia49@yahoo.com
Mountain View NA	Lauro Silva	alcoat1944@gmail.com
South Valley Alliance	Sara Newton Juarez	snjart@yahoo.com
South Valley Alliance	Zoe Economou	zoecon@unm.edu
South Valley Coalition of Neighborhood Associations	Rod Mahoney	rmahoney01@comcast.net
South Valley Coalition of Neighborhood Associations	Marcia Fernandez	mbfernandez1@gmail.com

Michelle Childers

From: Michelle Childers
Sent: Tuesday, November 22, 2016 11:48 AM
To: 'nancymbearce@gmail.com'; 'ginadennis@reliance.com'
Subject: Public Notice of Application for Air Quality Permit
Attachments: ABQ I-40_Notice of Intent_2016-11-22.pdf; ABQ Kirkland_Notice of Intent_2016-11-22.pdf

Dear Sir/Madam,

TowerCom Technologies, LLC submits this email and the attached public notice(s) on behalf of our client Verizon Wireless, LLC. Albuquerque-Bernalillo County Air Quality Regulation 20.11.41.13(B)(a) NMAC requires prior notification of intent to submit an air quality permit to the designated representative(s) of neighborhood associations located within 0.5 miles of the facility.

Per the records provide to us by the City of Albuquerque, Air Quality Program, you are listed as the designated representative(s) of the District 6 Coalition of Neighborhood Associations.

Please review the attached public notice form, which provides details of the proposed permitting action, including the information of the contact person for any inquiries or comments.

Thanks,

Michelle Childers
Permit Coordinator
TowerCom Technologies, LLC
Office - (505) 232-4884 ext 126
Mobile - (505) 274-5253
mchilders@towercomtechnologies.com

Michelle Childers

From: Michelle Childers
Sent: Tuesday, November 22, 2016 11:57 AM
To: 'marladesk@gmail.com'; 'mlglobus@gmail.com'
Subject: Public Notice of Application for Air Quality Permit
Attachments: ABQ Kirkland_Notice of Intent_2016-11-22.pdf

Dear Sir/Madam,

TowerCom Technologies, LLC submits this email and the attached public notice on behalf of our client Verizon Wireless, LLC. Albuquerque-Bernalillo County Air Quality Regulation 20.11.41.13(B)(a) NMAC requires prior notification of intent to submit an air quality permit to the designated representative(s) of neighborhood associations located within 0.5 miles of the facility.

Per the records provide to us by the City of Albuquerque, Air Quality Program, you are listed as the designated representative(s) of the Mountain View Community Action Neighborhood Association.

Please review the attached public notice form, which provides details of the proposed permitting action, including the information of the contact person for any inquiries or comments.

Thanks,

Michelle Childers
Permit Coordinator
TowerCom Technologies, LLC
Office - (505) 232-4884 ext 126
Mobile - (505) 274-5253
mchilders@towercomtechnologies.com

Michelle Childers

From: Michelle Childers
Sent: Tuesday, November 22, 2016 12:00 PM
To: 'ngarcia49@yahoo.com'; 'alcoat1944@gmail.com'
Subject: Public Notice of Application for Air Quality Permit
Attachments: ABQ Kirkland_Notice of Intent_2016-11-22.pdf

Dear Sir/Madam,

TowerCom Technologies, LLC submits this email and the attached public notice on behalf of our client Verizon Wireless, LLC. Albuquerque-Bernalillo County Air Quality Regulation 20.11.41.13(B)(a) NMAC requires prior notification of intent to submit an air quality permit to the designated representative(s) of neighborhood associations located within 0.5 miles of the facility.

Per the records provide to us by the City of Albuquerque, Air Quality Program, you are listed as the designated representative(s) of the Mountain View Neighborhood Association.

Please review the attached public notice form, which provides details of the proposed permitting action, including the information of the contact person for any inquiries or comments.

Thanks,

Michelle Childers
Permit Coordinator
TowerCom Technologies, LLC
Office - (505) 232-4884 ext 126
Mobile - (505) 274-5253
mchilders@towercomtechnologies.com

Michelle Childers

From: Michelle Childers
Sent: Tuesday, November 22, 2016 12:04 PM
To: 'snjart@yahoo.com'; 'zoecon@unm.edu'
Subject: Public Notice of Application for Air Quality Permit
Attachments: ABQ Kirkland_Notice of Intent_2016-11-22.pdf

Dear Sir/Madam,

TowerCom Technologies, LLC submits this email and the attached public notice on behalf of our client Verizon Wireless, LLC. Albuquerque-Bernalillo County Air Quality Regulation 20.11.41.13(B)(a) NMAC requires prior notification of intent to submit an air quality permit to the designated representative(s) of neighborhood associations located within 0.5 miles of the facility.

Per the records provide to us by the City of Albuquerque, Air Quality Program, you are listed as the designated representative(s) of the South Valley Alliance.

Please review the attached public notice form, which provides details of the proposed permitting action, including the information of the contact person for any inquiries or comments.

Thanks,

Michelle Childers
Permit Coordinator
TowerCom Technologies, LLC
Office - (505) 232-4884 ext 126
Mobile - (505) 274-5253
mchilders@towercomtechnologies.com

Michelle Childers

From: Michelle Childers
Sent: Tuesday, November 22, 2016 12:06 PM
To: 'rmahoney01@comcast.net'; 'mbfernandez1@gmail.com'
Subject: Public Notice of Application for Air Quality Permit
Attachments: ABQ Kirkland_Notice of Intent_2016-11-22.pdf

Dear Sir/Madam,

TowerCom Technologies, LLC submits this email and the attached public notice on behalf of our client Verizon Wireless, LLC. Albuquerque-Bernalillo County Air Quality Regulation 20.11.41.13(B)(a) NMAC requires prior notification of intent to submit an air quality permit to the designated representative(s) of neighborhood associations located within 0.5 miles of the facility.

Per the records provide to us by the City of Albuquerque, Air Quality Program, you are listed as the designated representative(s) of the South Valley Coalition of Neighborhood Associations.

Please review the attached public notice form, which provides details of the proposed permitting action, including the information of the contact person for any inquiries or comments.

Thanks,

Michelle Childers
Permit Coordinator
TowerCom Technologies, LLC
Office - (505) 232-4884 ext 126
Mobile - (505) 274-5253
mchilders@towercomtechnologies.com

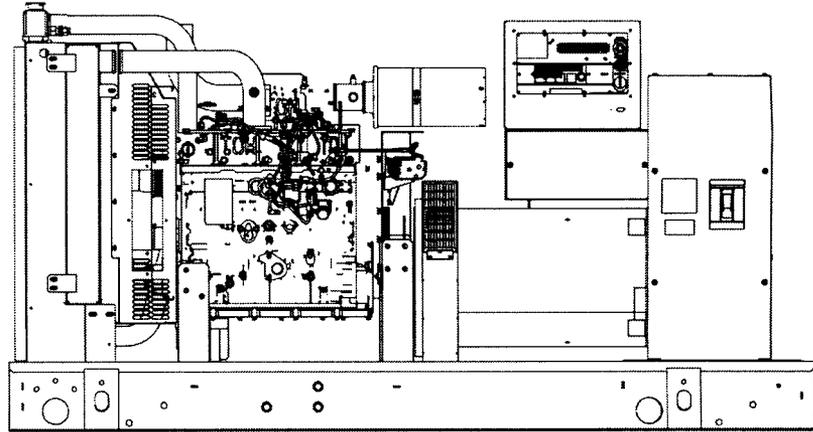
SD060 | 4.5L | 60 kW
INDUSTRIAL DIESEL GENERATOR SET
 EPA Certified Stationary Emergency

STANDBY POWER RATING

60 kW, 75 kVA, 60 Hz

PRIME POWER RATING*

54 kW, 68 kVA, 60 Hz



*Built in the USA using domestic and foreign parts

*EPA Certified Prime ratings are not available in the U.S. or its Territories.

**Certain options or customization may not hold certification valid.

Image used for illustration purposes only

CODES AND STANDARDS

Generac products are designed to the following standards:

 UL2200, UL508, UL142, UL498

 NFPA70, 99, 110, 37

 NEC700, 701, 702, 708

 ISO9001, 8528, 3046, 7637, Pluses #2b, 4

 NEMA ICS10, MG1, 250, ICS6, AB1

 **ANSI**
 American National Standards Institute
 ANSI C62.41

POWERING AHEAD

For over 50 years, Generac has led the industry with innovative design and superior manufacturing.

Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control systems and communications software.

Generac's gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial application under adverse conditions.

Generac is committed to ensuring our customers' service support continues after their generator purchase.

STANDARD FEATURES

ENGINE SYSTEM

General

- Oil Drain Extension
- Air Cleaner
- Fan Guard
- Stainless Steel flexible exhaust connection
- Critical Exhaust Silencer (enclosed only)
- Factory Filled Oil
- Radiator Duct Adapter (open set only)

Fuel System

- Fuel lockoff solenoid
- Primary fuel filter

Cooling System

- Closed Coolant Recovery System
- UV/Ozone resistant hoses
- Factory-Installed Radiator
- Radiator Drain Extension
- 50/50 Ethylene glycol antifreeze
- 120 VAC Coolant Heater

Engine Electrical System

- Battery charging alternator
- Battery cables
- Battery tray
- Solenoid activated starter motor
- Rubber-booted engine electrical connections

ALTERNATOR SYSTEM

- UL2200 GENprotect™
- 12 leads (3-phase, non 600 V)
- Class H insulation material
- Vented rotor
- 2/3 pitch
- Skewed stator
- Auxiliary voltage regulator power winding
- Amortisseur winding
- Brushless Excitation
- Sealed Bearings
- Automated manufacturing (winding, insertion, lacing, varnishing)
- Rotor dynamically spin balanced
- Full load capacity alternator
- Protective thermal switch

GENERATOR SET

- Internal Genset Vibration Isolation
- Separation of circuits - high/low voltage
- Separation of circuits - multiple breakers
- Silencer Heat Shield
- Wrapped Exhaust Piping
- Silencer housed in discharge hood (enclosed only)
- Standard Factory Testing
- 2 Year Limited Warranty (Standby rated Units)
- 1 Year Limited Warranty (Prime rated Units)
- Silencer mounted in the discharge hood (enclosed only)

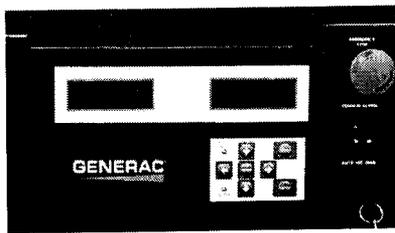
ENCLOSURE (IF SELECTED)

- Rust-proof fasteners with nylon washers to protect finish
- High performance sound-absorbing material
- Gasketed doors
- Stamped air-intake louvers
- Air discharge hoods for radiator-upward pointing
- Stainless steel lift off door hinges
- Stainless steel lockable handles
- Rhino Coat™ - Textured polyester powder coat

TANKS (IF SELECTED)

- UL 142
- Double wall
- Vents
- Sloped top
- Sloped bottom
- Factory pressure tested (2 psi)
- Rupture basin alarm
- Fuel level
- Check valve in supply and return lines
- Rhino Coat™ - Textured polyester powder coat
- Stainless hardware

CONTROL SYSTEM



Control Panel

- Digital H Control Panel - Dual 4x20 Display
- Programmable Crank Limiter
- 7-Day Programmable Exerciser
- Special Applications Programmable PLC
- RS-232/485
- All-Phase Sensing DVR
- Full System Status
- Utility Monitoring
- Low Fuel Pressure Indication
- 2-Wire Start Compatible
- Power Output (kW)

- Power Factor
- kW Hours, Total & Last Run
- Real/Reactive/Apparent Power
- All Phase AC Voltage
- All Phase Currents
- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Speed
- Battery Voltage
- Frequency
- Date/Time Fault History (Event Log)
- Isochronous Governor Control
- Waterproof/sealed Connectors
- Audible Alarms and Shutdowns
- Not in Auto (Flashing Light)
- Auto/Off/Manual Switch
- E-Stop (Red Mushroom-Type)
- NFPA110 Level I and II (Programmable)
- Customizable Alarms, Warnings, and Events
- Modbus protocol
- Predictive Maintenance algorithm
- Sealed Boards
- Password parameter adjustment protection

- Single point ground
- 15 channel data logging
- 0.2 msec high speed data logging
- Alarm information automatically comes up on the display

Alarms

- Oil Pressure (Pre-programmable Low Pressure Shutdown)
- Coolant Temperature (Pre-programmed High Temp Shutdown)
- Coolant Level (Pre-programmed Low Level Shutdown)
- Low Fuel Pressure Alarm
- Engine Speed (Pre-programmed Over speed Shutdown)
- Battery Voltage Warning
- Alarms & warnings time and date stamped
- Alarms & warnings for transient and steady state conditions
- Snap shots of key operation parameters during alarms & warnings
- Alarms and warnings spelled out (no alarm codes)

SD060 | 4.5L | 60 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

CONFIGURABLE OPTIONS

ENGINE SYSTEM

General

- Oil Heater
- Industrial Exhaust Silencer

Fuel System

- Flexible fuel lines
- Primary fuel filter

Engine Electrical System

- 10A UL battery charger
- 2.5A UL battery charger
- Battery Warmer

ALTERNATOR SYSTEM

- Alternator Upsizing
- Anti-Condensation Heater
- Tropical coating
- Permanent Magnet Excitation

ENGINEERED OPTIONS

ENGINE SYSTEM

- Coolant heater ball valves
- Block Heaters
- Fluid containment pans

ALTERNATOR SYSTEM

- 3rd Breaker Systems

CONTROL SYSTEM

- Spare inputs (x4) / outputs (x4) - H Panel Only
- Battery Disconnect Switch

CIRCUIT BREAKER OPTIONS

- Main Line Circuit Breaker
- 2nd Main Line Circuit Breaker
- Shunt Trip and Auxiliary Contact
- Electronic Trip Breaker

GENERATOR SET

- Gen-Link Communications Software (English Only)
- 8 Position Load Center
- 2 Year Extended Warranty
- 5 Year Warranty
- 5 Year Extended Warranty
- IBC Seismic Certification

ENCLOSURE

- Weather Protected
- Level 1 Sound Attenuation
- Level 2 Sound Attenuation
- Steel Enclosure
- Aluminum Enclosure
- 150 MPH Wind Kit
- 12 VDC Enclosure Lighting Kit
- 120 VAC Enclosure Lighting Kit
- AC/DC Enclosure Lighting Kit
- Door Alarm Switch

GENERATOR SET

- Special Testing

ENCLOSURE

- Motorized Dampers
- Door switched for intrusion alert
- Enclosure ambient heaters

TANKS (Size on last page)

- Electrical Fuel Level
- Mechanical Fuel Level
- 8" Fill Extension
- 13" Fill Extension
- 19" Fill Extension

CONTROL SYSTEM

- 21-Light Remote Annunciator
- Remote Relay Panel (8 or 16)
- Oil Temperature Sender with Indication Alarm
- Remote E-Stop (Break Glass-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Flush Mount)
- Remote Communication - Modem
- Remote Communication - Ethernet
- 10A Run Relay
- Ground Fault Indication and Protection Functions

TANKS

- Overfill Protection Valve
- UL2085 Tank
- ULC S-601 Tank
- Stainless Steel Tank
- Special Fuel Tanks (MIDEQ and FL DEP/DERM, etc.)
- Vent Extensions

RATING DEFINITIONS

Standby - Applicable for a varying emergency load for the duration of a utility power outage with no overload capability.

Prime - Applicable for supplying power to a varying load in lieu of utility for an unlimited amount of running time. A 10% overload capacity is available for 1 out of every 12 hours. The Prime Power option is only available on International applications. Power ratings in accordance with ISO 8528-1, Second Edition

SD060 | 4.5L | 60 kW INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General

Make	Generac
EPA Emissions Compliance	Stationary Emergency
EPA Emissions Reference	See Emissions Data Sheet
Cylinder #	4
Type	In-Line
Displacement - L (cu In)	4.5 (274.6)
Bore - mm (in)	105 (4.1)
Stroke - mm (in)	132 (5.2)
Compression Ratio	17.5:1
Intake Air Method	Turbocharged/Aftercooled
Cylinder Head Type	2 Valve
Piston Type	Aluminium
Crankshaft Type	Forged Steel

Engine Governing

Governor	Electronic Isochronous
Frequency Regulation (Steady State)	+/- 0.25%

Lubrication System

Oil Pump Type	Gear
Oil Filter Type	Full Flow
Crankcase Capacity - L (qts)	13.6 (14.4)

Cooling System

Cooling System Type	Closed
Water Pump	Belt Driven Centrifugal
Fan Type	Pusher
Fan Speed (rpm)	2538
Fan Diameter mm (in)	660.4 (26)
Coolant Heater Wattage	1500
Coolant Heater Standard Voltage	120 V /240 V

Fuel System

Fuel Type	Ultra Low Sulfur Diesel Fuel
Fuel Specifications	ASTM
Fuel Filtering (microns)	5
Fuel Injection	Stanadyne
Fuel Pump Type	Engine Driven Gear
Injector Type	Mechanical
Fuel Supply Line mm (in)	12.7 (0.5) NPT
Fuel Return Line mm (in)	12.7 (0.5) NPT

Engine Electrical System

System Voltage	12 VDC
Battery Charging Alternator	20 A
Battery Size	See Battery Index 0161970SBY
Battery Voltage	12 VDC
Ground Polarity	Negative

ALTERNATOR SPECIFICATIONS

Standard Model	390
Poles	4
Field Type	Revolving
Insulation Class - Rotor	H
Insulation Class - Stator	H
Total Harmonic Distortion	< 3%
Telephone Interference Factor (TIF)	< 50

Standard Excitation	Synchronous Brushless
Bearings	One-Pre Lubed & Sealed
Coupling	Direct, Flexible Disc
Load Capacity - Standby	100%
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Digital
Number of Sensed Phases	3
Regulation Accuracy (Steady State)	± 0.25%

SD060 | 4.5L | 60 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency



OPERATING DATA

POWER RATINGS

		Standby
Single-Phase 120/240 VAC @1.0pf	60 kW	Amps: 250
Three-Phase 120/208 VAC @0.8pf	60 kW	Amps: 208
Three-Phase 120/240 VAC @0.8pf	60 kW	Amps: 180
Three-Phase 277/480 VAC @0.8pf	60 kW	Amps: 90
Three-Phase 346/600 VAC @0.8pf	60 kW	Amps: 72

STARTING CAPABILITIES (sKVA)

Alternator	kW	sKVA vs. Voltage Dip											
		480 VAC						208/240 VAC					
		10%	15%	20%	25%	30%	35%	10%	15%	20%	25%	30%	35%
Standard	60	42	63	83	104	125	146	32	47	62	78	94	110
Upsize 1	80	59	88	117	147	176	205	44	66	88	110	132	154
Upsize 2	100	79	118	157	197	236	275	59	89	118	148	177	206

FUEL CONSUMPTION RATES*

Fuel Pump Lift - ft (m)		Diesel - gph (lph)	
		Percent Load	gph (lph)
3 (1)		25%	1.4 (5.3)
		50%	2.7 (10.2)
Total Fuel Pump Flow (Combustion + Return)		75%	3.8 (14.4)
13.6 gph		100%	4.8 (18.2)

* Fuel supply installation must accommodate fuel consumption rates at 100% load.

COOLING

		Standby
Coolant Flow per Minute	gpm (lpm)	32.7 (123.8)
Coolant System Capacity	gal (L)	4.5 (17.44)
Heat Rejection to Coolant	BTU/hr	123,000
Inlet Air	cfm (m3/hr)	6360 (180)
Max. Operating Radiator Air Temp	F° (C°)	122 (50)
Max. Ambient Temperature (before derate)	F° (C°)	104 (40)
Maximum Radiator Backpressure	in H ₂ O	0.5

COMBUSTION AIR REQUIREMENTS

	Standby
Flow at Rated Power cfm (m3/min)	247 (7.0)

ENGINE

		Standby
Rated Engine Speed	rpm	1800
Horsepower at Rated kW**	hp	93
Piston Speed	ft/min (m/min)	1559 (475)
BMEP	psi	154

EXHAUST

		Standby
Exhaust Flow (Rated Output)	cfm (m ³ /min)	534 (15.1)
Max. Backpressure (Post Silencer)	inHg (Kpa)	1.5 (5.1)
Exhaust Temp (Rated Output)	°F (°C)	930 (498.8)
Exhaust Outlet Size (Open Set)	mm (in)	76.2 (3.0)

** Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes.

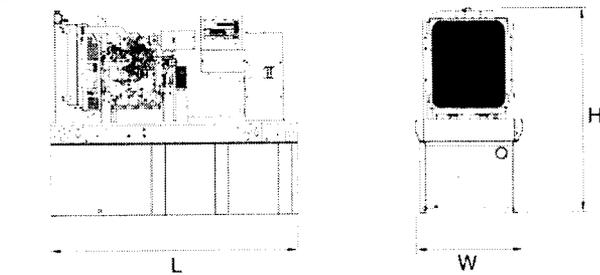
Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions. Please consult a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528 and DIN6271 standards.

SD060 | 4.5L | 60 kW

INDUSTRIAL DIESEL GENERATOR SET

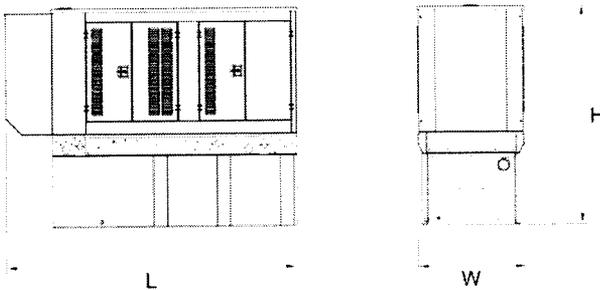
EPA Certified Stationary Emergency

DIMENSIONS AND WEIGHTS*



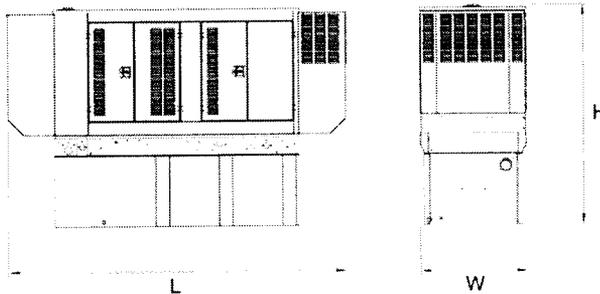
OPEN SET

RUN TIME HOURS	USABLE CAPACITY GAL (L)	L x W x H in (mm)	WT lbs (kg) - Tank & Open Set	
			Steel	Aluminum
NO TANK	-	93 (2362.2) x 40 (1016) x 49 (1244.6)	2425 (1100)	
16	79 (299)	93 (2362.2) x 40 (1016) x 62 (1574.8)	2947 (1201)	
39	189 (715.4)	93 (2362.2) x 40 (1016) x 74 (1879.6)	3183 (1444)	
63	300 (1135.6)	93 (2362.2) x 40 (1016) x 86 (2184.4)	3407 (1545)	
73	350 (1325)	110 (2794) x 40 (1016) x 86 (2184.4)	NA	
106	510 (1930.5)	117 (2971.8) x 47 (1193.8) x 86 (2184.4)	3790 (1719)	
123	589 (2229.6)	128 (3251.2) x 49 (1244.6) x 86 (2184.4)	4269 (1936)	



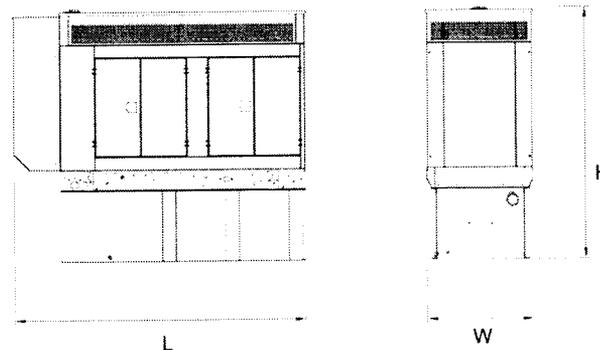
STANDARD ENCLOSURE

RUN TIME HOURS	USABLE CAPACITY GAL (L)	L x W x H in (mm)	WT lbs (kg) - Enclosure Only	
			Steel	Aluminum
NO TANK	-	112 (2844.8) x 41 (1041.4) x 56 (1422.4)		
16	79 (299)	112 (2844.8) x 41 (1041.4) x 69 (1752.6)		
39	189 (715.4)	112 (2844.8) x 41 (1041.4) x 81 (2057.4)		
63	300 (1135.6)	112 (2844.8) x 41 (1041.4) x 93 (2362.2)	425 (193)	155 (70)
73	350 (1325)	112 (2844.8) x 41 (1041.4) x 93 (2362.2)		
106	510 (1930.5)	117 (2971.8) x 47 (1193.8) x 93 (2362.2)		
123	589 (2229.6)	128 (3251.2) x 49 (1244.6) x 93 (2362.2)		



LEVEL 1 ACOUSTIC ENCLOSURE

RUN TIME HOURS	USABLE CAPACITY GAL (L)	L x W x H in (mm)	WT lbs (kg) - Enclosure Only	
			Steel	Aluminum
NO TANK	-	130 (3302) x 41 (1041.4) x 56 (1422.4)		
16	79 (299)	130 (3302) x 41 (1041.4) x 69 (1752.6)		
39	189 (715.4)	130 (3302) x 41 (1041.4) x 81 (2057.4)		
63	300 (1135.6)	130 (3302) x 41 (1041.4) x 93 (2362.2)	450 (204)	285 (129)
73	350 (1325)	130 (3302) x 41 (1041.4) x 93 (2362.2)		
106	510 (1930.5)	130 (3302) x 47 (1193.8) x 93 (2362.2)		
123	589 (2229.6)	130 (3302) x 49 (1244.6) x 93 (2362.2)		



LEVEL 2 ACOUSTIC ENCLOSURE

RUN TIME HOURS	USABLE CAPACITY GAL (L)	L x W x H in (mm)	WT lbs (kg) - Enclosure Only	
			Steel	Aluminum
NO TANK	-	112 (2844.8) x 41 (1041.4) x 69 (1752.6)		
16	79 (299)	112 (2844.8) x 41 (1041.4) x 82 (2082.8)		
39	189 (715.4)	112 (2844.8) x 41 (1041.4) x 94 (2387.6)		
63	300 (1135.6)	112 (2844.8) x 41 (1041.4) x 106 (2692.4)	625 (284)	395 (180)
73	350 (1325)	112 (2844.8) x 41 (1041.4) x 106 (2692.4)		
106	510 (1930.5)	117 (2971.8) x 47 (1193.8) x 106 (2692.4)		
123	589 (2229.6)	128 (3251.2) x 49 (1244.6) x 106 (2692.4)		

YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER

*All measurements are approximate and for estimation purposes only. Sound dBA can be found on the sound data sheet. Enclosure Only weight is added to Tank & Open Set weight to determine total weight.

Specification characteristics may change without notice. Dimensions and weights are for preliminary purposes only. Please consult a Generac Power Systems Industrial Dealer for detailed installation drawings.

STATEMENT OF EXHAUST EMISSIONS 2016 FPT DIESEL FUELED GENERATOR

The measured emissions values provided here are proprietary to Generac and its authorized dealers. This information may only be disseminated upon request, to regulatory governmental bodies for emissions permitting purposes or to specifying organizations as submittal data when expressly required by project specifications, and shall remain confidential and not open to public viewing. This information is not intended for compilation or sales purposes and may not be used as such, nor may it be reproduced without the expressed written permission of Generac Power Systems, Inc. The data provided shall not be meant to include information made public by Generac.

Generator Model:	SD060	EPA Certificate Number:	GFPXL04.5DTD-002
kW _e Rating:	60	CARB Certificate Number:	Not Applicable
Engine Family:	GFPXL04.5DTD	SCAQMD CEP Number:	-
Engine Model:	F4GE9455A*J	Emission Standard Category:	Tier 3
Rated Engine Power (BHP)*:	93	Certification Type:	Stationary Emergency CI
Fuel Consumption (gal/hr)*:	5.04		(40 CFR Part 60 Subpart IIII)
Aspiration:	Turbo/Aftercooled		
Rated RPM:	1800		

*Engine Power and Fuel Consumption are declared by the Engine Manufacturer of Record and the U.S. EPA.

**Emissions based on engine power of specific Engine Model.
(These values are actual composite weighted exhaust emissions results over the EPA 5-mode test cycle.)**

CO	NOx + NMHC	PM	
1.30	4.30	0.31	Grams/kW-hr
1.00	3.20	0.23	Grams/bhp-hr

- The stated values are actual exhaust emission test measurements obtained from an engine representative of the type described above.
- Values based on 5mode testing are official data of record as submitted to regulatory agencies for certification purposes. Testing was conducted in accordance with prevailing EPA protocol, which is typically accepted by SCAQMD and other regional authorities.
- No emissions values provided above are to be construed as guarantees of emission levels for any given Generac generator unit.
- Generac Power Systems, Inc. reserves the right to revise this information without prior notice.
- Consult state and local regulatory agencies for specific permitting requirements.
- The emission performance data supplied by the equipment manufacturer is only one element required toward completion of the permitting and installation process. State and local regulations may vary on a case-by-case basis and local agencies must be consulted by the permit application/equipment owner prior to equipment purchase or installation. The data supplied herein by Generac Power Systems cannot be construed as a guarantee of installability of the generating set.

ABQ I-40

Easterday Dr NE

Marron Cir NE

Glorieta St NE

Tieran Ct NE

ABQ I-40

9523 Lomas Blvd NE

Lomas Blvd NE

Google earth

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December 2, 2016

Mr. Isreal Tavaréz
Air Quality Program
Environmental Health Department
City of Albuquerque
One Civic Plaza NW
Albuquerque, NM 87103

Dear Mr. Tavaréz,

Enclosed is an application for a construction permit to install an emergency generator at VZW's ABQ ABQ Kirkland facility, located at 8226 Broadway Blvd. SE in Albuquerque, New Mexico. Check #1668 for the amount of \$1,904.00 is being submitted for the permit application review fee. Also enclosed are the emails/ letters that were sent to the District 6 Coalition of Neighborhood Associations, Mountain View Community Action Neighborhood Association, Mountain View Neighborhood Association, South Valley Alliance, and the South Valley Coalition of Neighborhood Associations, notifying them of Verizon Wireless's intent to submit an application for a construction permit.

If you require any further information or have any questions, please contact me at 505-232- 4884, ext. 126.

Thank you,

A handwritten signature in black ink that reads "Michelle Childers".

Michelle Childers
Permit Coordinator
TowerCom Technologies, LLC

Cc: Regan Eyerman, Permitting Section, AQP

Encl: As stated

A rectangular stamp with the word "RECEIVED" in large, bold, capital letters. Below it, the date "12/16" is handwritten in black ink.

TOWERCOM TECHNOLOGIES, LLC

767 N Star Road Star, ID 83669 (208) 286-0266

Albuquerque, NM • Star, ID • El Paso, TX • Las Vegas, NV • Denver, CO • Irvine, CA • West Valley, UT • Tempe, AZ



Pre-Permit Application Meeting Request Form

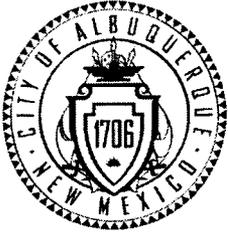
Air Quality Program- Environmental Health Department

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

Name:	MICHELLE CHILDERS
Company/Organization:	VERIZON WIRELESS
Point of Contact: (phone number and email): Preferred form of contact (circle one): Phone <input type="radio"/> E-mail <input checked="" type="radio"/>	Phone: (505) 232-4884 x126 Email: mchilders@towercomtechnologies.com
Preferred meeting date/times:	ANY M-F, 8:00 - 5:00
Description of Project:	ABQ KIRKLAND 8226 BROADWAY BLVD SE ALBUQUERQUE NM 87109 60 KW EMERGENCY BACKUP GENERATOR FOR CELLULAR TELECOMMUNICATIONS SITE.

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: ABQ KIRKLAND
Contact: MICHELLE CHILDERS
Company/Business: VERIZON WIRELESS

Fill out and submit a Pre-Permit Application Meeting Request form
⇒ Available online at <http://www.cabq.gov/airquality>

Emission Factors and Control Efficiencies
Notes:

Air Dispersion modeling guidelines and protocol
Notes:

Department Policies
Notes:

Air quality permit fees
Notes:

Ver. 11/13 \$1904.00

- Public notice requirements
 - Replacement Part 41 Implementation
 - 20.11.41.13 B. Applicant's public notice requirements
 - Providing public notice to neighborhood association/coalitions
 - Neighborhood association: _____
 - Coalition: _____

Notes:

AQP-PROVIDED LIST OF NEIGHBORHOOD
ASSOCIATIONS & COALITIONS ATTACHED

- Posting and maintaining a weather-proof sign
- Notes:

- 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:



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: VERIZON WIRELESS 126 W GEMINI TEMPE AZ 85283

Owner / Operator’s Name and Address: SAME AS APPLICANT

Actual or Estimated Date the Application will be submitted to the Department: 12/2/2016

Exact Location of the Source or Proposed Source: ABQ KIRKLAND

8226 BROADWAY BLVD SE, ALBUQUERQUE, NM 87109

Description of the Source:

60 KW DIESEL FUELED EMERGENCY BACKUP GENERATOR

Nature of the Business:

CELLULAR TELECOMMUNICATIONS

Process or Change for which the permit is requested:

EMERGENCY BACKUP POWER IN THE EVENT OF ELECTRICAL POWER LOSS

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

Net Changes In Emissions

Initial Construction Permit

(Only for permit Modifications or Technical Revisions)

	Pounds Per Hour (lbs/hr)	Tons Per Year (tpy)		lbs/hr	tpy	Estimated Total TPY
CO	0.205	0.051	CO	+/-	+/-	
NOx	0.623	0.155	NOx	+/-	+/-	
SO2	0.019	0.004	SO2	+/-	+/-	
VOC	0.032	0.008	VOC	+/-	+/-	
TSP	0.047	0.011	TSP	+/-	+/-	
PM10	0.047	0.011	PM10	+/-	+/-	
PM2.5	0.046	0.011	PM2.5	+/-	+/-	
VHAP	N/A	N/A	VHAP	+/-	+/-	

Maximum Operating Schedule: 500 HOURS PER YEAR

Normal Operating Schedule: ONLY IN THE ABSENCE OF COMMERCIAL POWER

Current Contact Information for Comments and Inquires:

Name: OSCAR APONTE

Address: 126 W GEMINI TEMPE AZ 85283

Phone Number: (602) 361-9071

E-Mail Address: oscar.aponte@verizonwireless.com

Ver.11/13

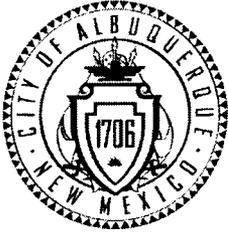
City of Albuquerque- Environmental Health Department
Air Quality Program- Permitting Section
Phone: (505) 768-1972 Email: aqd@cabq.gov

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.



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: ABQ KIRKLAND
Contact: MICHELLE CHILDERS
Company/Business: VERIZON WIRELESS

- 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:



GEN APP SIGNAGE PHOTOS

DATE: 12/5/16

SITE NAME: VZW ABQ I-40

ADDRESS: 9523 LOMAS BLVD NE
NEW MEXICO 87105

COORDINATES: 35°05'18.168"
106°32'26.084"



REDUCED AIR QUALITY CONSTRUCTION PERMIT

PROJECT NAME: [Illegible]

PROJECT ADDRESS: [Illegible]

PROJECT CONTACT: [Illegible]

PROJECT DESCRIPTION: [Illegible]

PROJECT START DATE: [Illegible]

PROJECT END DATE: [Illegible]

PROJECT TYPE: [Illegible]

PROJECT STATUS: [Illegible]

PROJECT LOCATION: [Illegible]

PROJECT CONTACT: [Illegible]

PROJECT CONTACT: [Illegible]

PROJECT CONTACT: [Illegible]





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 DIESEL ENGINES

SUBJECT TO FEDERAL (USEPA) NEW SOURCE PERFORMANCE STANDARDS (NSPS)

Section 1. General Information

Date Submitted: 12 / 2 / 2016

1. Company Name: VERIZON WIRELESS (VAW) LLC Ph: () Email: _____
2. Company Address: 126 W GEMINI City: TEMPE State: AZ Zip: 85283
3. Company Mailing Address (if different): _____ Zip: _____
4. Company Contact: OSCAR APONTE Title: MANAGER OF IMPLEMENTATION Ph: (602) 361 - 9071 Email: oscar.aponte@verizonwireless.com
5. Facility Name: ABQ KIRKLAND Facility Hours: 12 : 00 am or pm TO 11 : 59 am or pm
6. Facility Address: 8226 BROADWAY BLVD SE City: ALBUQUERQUE State: NM Zip: 87109
7. Local Business Mailing Address (if different): _____ Email: _____
8. Facility Environmental Contact: OSCAR APONTE Title: MANAGER OF IMPLEMENTATION Ph: (602) 361 - 9071 Fax: () -
9. Email: oscar.aponte@verizonwireless.com 10. Type of Business: CELLULAR TELECOMMUNICATIONS
11. Environmental Consultant Name and Email Address (if applicable): MICHELLE CHILDERS mchilders@towercomtechnologies.com
12. North American Industry Classification System (NAICS): 237130 13. Standard Industrial Classification (SIC): 4801
14. UTM coordinates (required): 348757m east 3871045m north 15. Facility Ph: () - Fax: () -
16. Billing Contact: LAURIE BALLEW Title: NETWORK ASSISTANT Ph: (702) 994 - 4780 Fax: () -
17. Billing Address: 6416 ARVILLE ST. City: LAS VEGAS State: NV Zip: 89118
18. Is this an Initial Installation; OR Modification of an Existing Unit: Initial Modification 19. Current or requested operating hrs/yr: 500 HPY
20. Is engine or genset installed: Yes No If yes, date installed: ___/___/___ If no, anticipated installation date: ___/___/20___

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 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	GENERAC	F4GE9455A*J	TBD	TBD/2015	N/A	93	N/A
Generator	GENERAC	SD060	TBD	TBD/2015	N/A	N/A	60 kW

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

7.5 feet - Height	0.25 feet - Diameter	930 °F	534 ft3/min - Flow Rate Exit - upward
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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	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
EXAMPLE 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	1.0	x	93	=	93	+	453.6	=	0.205	x	8,760	+	2,000	=	0.898
	NO _x	3.04	x	93	=	282.72	+	453.6	=	0.623	x	8,760	+	2,000	=	2.729
	NMHC	0.16	x	93	=	14.88	+	453.6	=	0.032	x	8,760	+	2,000	=	0.143
	*NO _x + NMHC	3.2	x	93	=	297.6	+	453.6	=	0.656	x	8,760	+	2,000	=	2.873
	**SO _x	0.93	x	93	=	8.649	+	453.6	=	0.019	x	8,760	+	2,000	=	0.083
	***PM	0.23	x	93	=	21.39	+	453.6	=	0.047	x	8,760	+	2,000	=	0.206

* 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.

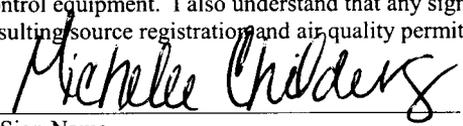
*** Particulate Matter (PM) emissions are considered to be < 1µm (micron). Therefore, PM emissions also reflect PM₁₀ & PM_{2.5}.

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. Pounds 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	200	=	430	+	2,000	=	0.22
NO _x		x		=		+		=	
NMHC		x		=		+		=	
*NO _x + NMHC	2.48	x	200	=	496	+	2,000	=	0.25
**SO _x	0.77	x	200	=	154	+	2,000	=	0.08
***PM	0.12	x	200	=	24	+	2,000	=	0.012
CO	0.205	x	500	=	102.5	+	2,000	=	0.051
NO _x	0.623	x	500	=	311.5	+	2,000	=	0.155
NMHC	0.032	x	500	=	16.0	+	2,000	=	0.008
*NO _x + NMHC	0.656	x	500	=	328	+	2,000	=	0.164
**SO _x	0.019	x	500	=	9.5	+	2,000	=	0.004
***PM	0.047	x	500	=	23.5	+	2,000	=	0.011

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.

MICHELLE CHILDERS  PERMIT COORDINATOR 12 / 2 / 16
 Print Name Signature Title Date

Federal New Source Performance Standards (NSPS) for Stationary Emergency Diesel Engines (40CFR 60.4202 & 60.4205) in Grams Per Horsepower Hour (g/hp-hr) for Engines with a Displacement of < 10 Liters Per Cylinder

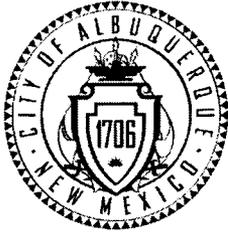
Horsepower / kW	Tier (CFR Section)	Year Of Manufacture	CO (g/hp-hr)	NOx ¹ (g/hp-hr)	NMHC ¹ (g/hp-hr)	NOx + NMHC ¹ (g/hp-hr)	SOx ² (g/hp-hr)	Particulate Matter (PM) (g/hp-hr)	Notes	
< 11 Hp < 8 kW	1 (60.4205)	Pre 2007 ³	6.0			7.8	0.93*	0.75	* Use AP-42 Section 3.3 SOx factors if <600Hp and Section 3.4 if >600Hp, as shown on this table, or manufacturer's factors. Manufacturer's factors shall be used when larger than AP-42 factors.	
										2007
≥ 11 Hp < 25 Hp	4 (60.4202)	2008 +	6.0			5.6	0.93*	0.6		
										2007
≥ 8 kW < 19 kW	1 (60.4205)	Pre 2007 ³	4.9			7.1	0.93*	0.6		
										2007
≥ 25 Hp < 50 Hp	2 (60.4202) - (89.112)	2008 +	4.9			5.6	0.93*	0.6		
										2007
≥ 19 kW < 37 kW	4 (60.4202)	2008 +	4.1			5.6	0.93*	0.3		
										2007
≥ 50 Hp < 100 Hp	1 (60.4205)	Pre 2007 ³	3.03**	6.9	1.12**		0.93*	1.0**		
										2007
≥ 37 kW < 75 kW	2 (60.4202) - (89.112)	2008 +	3.7			3.5	0.93*	0.3		
										2007
≥ 100 Hp < 175 Hp	1 (60.4205)	Pre 2007 ³	3.03**	6.9	1.12**		0.93*	1.0**		
										2007 +
≥ 75 kW < 130 kW	3 (60.4202) - (89.112)	Pre 2007 ³	8.5	6.9	1.0		0.93* for < 600Hp or 3.67* for > 600Hp	0.4		
										2007 +
≥ 130 kW ≤ 560 kW	3 (60.4202) - (89.112)	2007 +	2.6			3.0		0.15		
										Pre 2007 ³
> 75 Hp	1 (60.4205)	Pre 2007 ³	8.5	6.9	1.0	4.8	3.67	0.4		
										2007***
> 560 kW	3 (60.4202) - (89.112)	*** 2007 - 2010 Model Year Engines > 3,000 Hp shall meet the Pre 2007 standards and beginning with the 2011 model year, Engines > 3,000 Hp shall meet the 2007 standards								

** 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.

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 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).



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
 - i. Neighborhood Association(s): *DETERMINATION OF NA-NCs ATTACHED

 - ii. Coalition(s): _____

 - 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.

 - 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).
- R. contain all calculations used to estimate **potential emission rate** and **controlled emissions**.
- S. 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.
- U. 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. 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. contain a preliminary operational plan defining the measures to be taken to mitigate source emissions during malfunction, startup, or shutdown.
- Y. 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.
- Z. 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. contain description of the equipment or methods proposed by the applicant to be used for emission measurement.
- 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.