



NJ
UNIFORM CONSTRUCTION CODE

C-17-004414

I. IDENTIFICATION

Tel: (157) 777-3477 FAX: (157) 777-5270

U.C.C. F100-1 (rev. 8/08)



Brick Township
401 Chambersbridge Rd
Brick, NJ 08723

Date Issued 11/17/2017
Control Number C-17-004414
Permit Number 17-3499
Permit Issue Date 10/19/2017
Certificate Number 17-3499

Certificate

Construction Code Division
(Certificate of Approval)

Identification

Work Site Location: 165 WALTER RD. Brick Township, NJ Block: 1170.07 Lot: 10 Qual: _____
Owner in Fee: NEAL, RUTH CAROL
Owner Address: 165 WALTER RD. BRICK NJ 08724
Telephone: [REDACTED]
Contractor PLV Electric LLC
Address 919 RT 33 STE 47 FREEHOLD NJ 07728
Telephone: (732) 222-5310 Fax: (732) 222-5320
License Number or Builders Registration Number: 34EI01573900 Federal Emp. Number: 15739
13VH08118400

Home Warranty Number: _____

Type of Warranty Plan: ☐ State ☐ Private

Use Group: R-5

Construction Classification: _____

Maximum Live Load: 0

Maximum Occupancy Load: 0

Description of Work/Use: GENERATOR

Certificate Comments:

☐ **Certificate of Occupancy**

This serves notice that said building or structure has been constructed in accordance with the New Jersey Uniform Construction Code and is approved for occupancy.

☒ **Certificate of Approval**

This serves notice that the work completed has been constructed or installed in accordance with the New Jersey Uniform Construction Code and is approved. If the permit was issued for minor work, this certificate was based upon what was visible at the time of inspection.

☐ **Certificate of Continued Occupancy**

This serves notice that based on a general inspection of the visible parts of the building there are no imminent hazards and the building is approved for continued occupancy.

☐ **Temporary Certificate of Compliance**

The following conditions must be met no later than or the owner will be subject to fine or order to vacate:

This certificate has an expiration date of:

Conditions to be met:

☐ **Certificate of Clearance - Lead Abatement 5:17**

This serves notice that based on written certification, lead abatement was performed as per NJAC5:17 to the following extent.

- ☐ Total removal of lead-based paint hazards in scope of work
☐ Partial or limited time period (years); see file

☐ **Certificate of Clearance - Asbestos Abatement**

This serves notice that based on written certification, asbestos abatement was performed to the following extent.

- ☐ Total removal of asbestos hazards in scope of work
☐ Partial or limited time period (years); see file

☐ **Certificate of Compliance**

This serves notice that said potentially hazardous equipment has been installed and/or maintained in accordance with the New Jersey Uniform Construction Code and is approved for use until

☐ **Temporary Certificate of Occupancy**

The following conditions must be met no later than: or the owner will be subject to fine or order to vacate:

This certificate has an expiration date of:

Conditions to be met:

Construction Official _____

Fee: \$0.00

Check Number: _____

Collected By: _____

CERTIFICATION IN LIEU OF OATH

I. OWNER SECTION (to be completed if the applicant is the owner in fee)

I hereby certify that I am the owner in fee of the property listed on Page 1.

Mark the following applicable boxes:

- A. ☐ I further certify that a new home (private residence) will be constructed on this property for my own use and occupancy. This dwelling is to be occupied by myself and is not to be used for any purpose other than single family residential use. I attest that all construction, plumbing, or electrical work will be done, in whole or in part, by me or by subcontractors under my supervision, in accordance with all applicable laws; and, I further acknowledge that said new home is not covered under the New Home Warranty and Builders Registration Act (N.J.S.A. 46:3B-1 et seq.) and that such fact shall be disclosed to any person purchasing this property within ten years of the date of issuance of a certificate of occupancy.

I UNDERSTAND THAT IN MARKING BOX A, I ACKNOWLEDGE THAT I AM ASSUMING RESPONSIBILITY FOR THE WORK DONE ON SAID PROPERTY, THE CONDITION OF THE PROPERTY PRIOR TO, DURING, AND AFTER ANY WORK PERFORMED, AND FOR THE PERFORMANCE OF THE SUBCONTRACTORS I HIRE, EMPLOY, OR OTHERWISE CONTRACT OR WITH WHOM I MAKE AGREEMENTS TO PERFORM WORK. I AM VOLUNTARILY AND KNOWINGLY ASSUMING THIS RESPONSIBILITY.

- B. ☐ I further certify the following as required by the New Jersey Uniform Construction Code, N.J.A.C. 5:23-2.15(f)1.ix:

I personally prepared the plans submitted for: 1) the new home referred to in A.; or, 2) an addition, alteration, renovation, or repair to an existing single family residence owned and occupied by myself and located on the property listed on Page 1; or, 3) a new structure that will be physically separate from, but that will be deemed part of, an existing single family residence that is owned and occupied by myself and located on the property listed on Page 1.

- C. ☐ I further certify that I will perform or supervise the following work:

C.1. ☐ Building C.2. ☐ Fire Protection

I further certify that I will perform the following work:

C.3. ☐ Electrical C.4. ☐ Plumbing

- D. ☐ I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

I understand that if any of the above statements are willfully false, I am subject to punishment.

Signature _____ Date _____

II. AGENT SECTION (to be completed if the applicant is not the owner in fee)

I hereby certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(d): the proposed work is authorized by the owner in fee; and I have been authorized by the owner in fee to make this application as his agent.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I understand that if any of the above statements are willfully false, I am subject to punishment.

☒ Check if contractor.

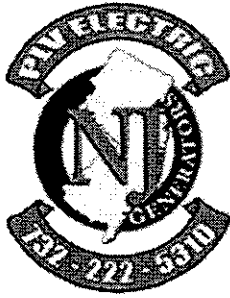
Agent Name _____

Address _____

Telephone _____

Signature _____

III. ☐ LEAD HAZARD ABATEMENT: Include Homeowner or Building Owner Affidavit as per N.J.A.C. 5:17.



GENERAC®

PLV ELECTRIC LLC
919 state route 33
suite 47
freehold, NJ 07728
(732) 963-5392
www.njgenerators.com

Sizing Report

Rated Nominal Voltage 240
Generator Fuel Choice Natural Gas
Sizing Method (NEC 220) Part IV
(Part III required for selected circuit implementation, Both valid for whole house)

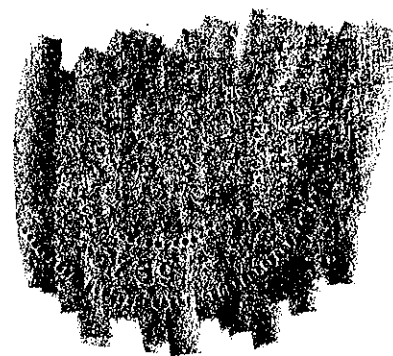
General Lighting & Receptacles		Load (kW)
Square Footage Being Covered (ft ²)	965	2.895
Small Appliance Circuits (20 amps)		
Kitchen Circuits	2	3
Laundry Circuits	1	1.5

	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
Fixed-In-Place Appliances & Motors					
Microwave		1.3			1.3
Furnace (Forced Air)		0.7			0.7
Dishwasher		1.5			1.5
Refrigerator		0.8			0.8

	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
Air Conditioning & Cooling					
2.5 Ton Unit	X	2.5		X	0.0

	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
Heating & Heat Pumps					

	Estimated (LRA)	Actual (LRA)	Utilized (LRA)
Transient Requirement			
Largest Motor's Starting Amps (LRA)	72	73	73



9/11 kW

GENERAC®

GUARDIAN® SERIES Residential Standby Generators Air-Cooled Gas Engine

9/11 kW

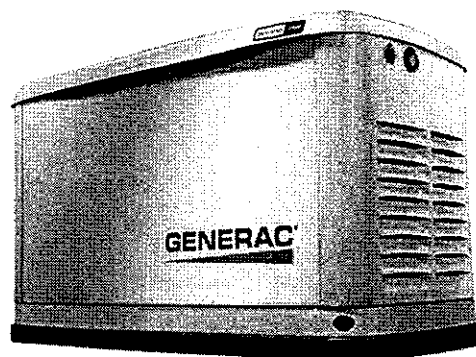
1 of 5

INCLUDES:

- True Power™ Electrical Technology
- Two Line LCD Multilingual Digital Evolution™ Controller (English/Spanish/French/Portuguese)
- Two Transfer Switch Options Available:
100 Amp 16 Circuit Switch or
200 Amp Service Rated Switch.
See Page 4 for Details.
- Electronic Governor
- System Status & Maintenance Interval LED Indicators
- Sound Attenuated Enclosure
- Flexible Fuel Line Connector
- Direct-To-Dirt Composite Mounting Pad
- Natural Gas or LP Gas Operation
- 5 Year Limited Warranty
- Capability to be installed within 18" (457 mm) of a building*

Standby Power Rating

Models G007029-0, G007030-0 (Aluminum - Bisque) - 9 kW 60 Hz
Models G007032-0, G007033-0 (Aluminum - Bisque) - 11 kW 60 Hz
Model G007031-0 (Aluminum - Bisque) 11 kW 60 Hz



Note: CUL certification only applies to unbundled units and units packaged with limited circuit switches. Units packaged with the Smart Switch are UL certified in the USA only.

*Only if located away from doors, windows and fresh air intakes, and unless otherwise directed by local codes.

FEATURES

- **INNOVATIVE ENGINE DESIGN & RIGOROUS TESTING** are at the heart of Generac's success in providing the most reliable generators possible. Generac's G-Force engine lineup offers added peace of mind and reliability for when you need it the most. The G-Force series engines are purpose built and designed to handle the rigors of extended run times in high temperatures and extreme operating conditions.
- **TRUE POWER™ ELECTRICAL TECHNOLOGY:** Superior harmonics and sine wave form produce less than 5% Total Harmonic Distortion for utility quality power. This allows confident operation of sensitive electronic equipment and micro-chip based appliances, such as variable speed HVAC systems.
- **TEST CRITERIA:**
 - ✓ **PROTOTYPE TESTED**
 - ✓ **SYSTEM TORSIONAL TESTED**
 - ✓ **NEMA MG1-22 EVALUATION**
 - ✓ **MOTOR STARTING ABILITY**
- **SOLID-STATE, FREQUENCY COMPENSATED VOLTAGE REGULATION:** This state-of-the-art power maximizing regulation system is standard on all Generac models. It provides optimized FAST RESPONSE to changing load conditions and MAXIMUM MOTOR STARTING CAPABILITY by electronically torque-matching the surge loads to the engine. Digital voltage regulation at $\pm 1\%$.
- **SINGLE SOURCE SERVICE RESPONSE** from Generac's extensive dealer network provides parts and service know-how for the entire unit, from the engine to the smallest electronic component.
- **GENERAC TRANSFER SWITCHES:** Long life and reliability are synonymous with GENERAC POWER SYSTEMS. One reason for this confidence is that the GENERAC product line includes its own transfer systems and controls for total system compatibility.

GENERAC
PROMISE



* Built in the USA using domestic and foreign parts.

	Load (kW)	NEC Required
Summary NEC Load		
General Lighting & Receptacles	7.4	
Fixed-in-Place Appliances & Motors	4.3	
Sum of all General Loads	11.7	10.7
Cooling	0	0
Heating (w/demand factors)	0	0
Larger of Heating & Cooling	0	0
Sizing based on requirements of NEC Article 220, Part IV		10.7
Elevation		0 ft
Minimum size generator for motor starting requirements		11
BTU load required		309000

16 kW Generac Model Generator Recommended

Engine

- Generac G-Force design Maximizes engine "breathing" for increased fuel efficiency. Plateau honed cylinder walls and plasma moly rings helps the engine run cooler, reducing oil consumption resulting in longer engine life.
- "Spiny-lok" cast iron cylinder walls Rigid construction and added durability provide long engine life.
- Electronic ignition/spark advance These features combine to assure smooth, quick starting every time.
- Full pressure lubrication system Pressurized lubrication to all vital bearings means better performance, less maintenance and longer engine life. Now featuring up to a 2 year/200 hour oil change interval.
- Low oil pressure shutdown system Shutdown protection prevents catastrophic engine damage due to low oil.
- High temperature shutdown Prevents damage due to overheating.

Generator

- Revolving field Allows for a smaller, light weight unit that operates 25% more efficiently than a revolving armature generator.
- Skewed stator Produces a smooth output waveform for compatibility with electronic equipment.
- Displaced phase excitation Maximizes motor starting capability.
- Automatic voltage regulation Regulates the output voltage to $\pm 1\%$ prevents damaging voltage spikes.
- UL 2200 listed For your safety.

Transfer Switch (if applicable)

- Fully automatic Transfers your vital electrical loads to the energized source of power.
- NEMA 3R Can be installed inside or outside for maximum flexibility.
- Remote mounting Mounts near your existing distribution panel for simple, low-cost installation.

Evolution™ Controls

- Auto/Manual/Off illuminated buttons Selects the operating mode and provides easy, at-a-glance status indication in any condition.
- Two-line LCD multilingual display Provides homeowners easily visible logs of history, maintenance and events up to 50 occurrences.
- Sealed, raised buttons Smooth, weather-resistant user interface for programming and operations.
- Utility voltage sensing Constantly monitors utility voltage, setpoints 65% dropout, 80% pick-up, of standard voltage.
- Generator voltage sensing Constantly monitors generator voltage to ensure the cleanest power delivered to the home.
- Utility interrupt delay Prevents nuisance start-ups of the engine, adjustable 2-1500 seconds from the factory default setting of 12 seconds by a qualified dealer.
- Engine warm-up Ensures engine is ready to assume the load, setpoint approximately 5 seconds.
- Engine cool-down Allows engine to cool prior to shutdown, setpoint approximately 1 minute.
- Programmable exercise Operates engine to prevent oil seal drying and damage between power outages by running the generator for 12 minutes every other week. Also offers a selectable setting for weekly or monthly operation providing flexibility and potentially lower fuel costs to the owner.
- Smart battery charger Delivers charge to the battery only when needed at varying rates depending on outdoor air temperature. Compatible with lead acid and AGM-style batteries.
- Main line circuit breaker Protects generator from overload.
- Electronic governor Maintains constant 60 Hz frequency.

Unit

- SAE weather protective enclosure Sound attenuated enclosures ensure quiet operation and protection against mother nature, withstanding winds up to 150 mph. Hinged key locking roof panel for security. Lift-out front for easy access to all routine maintenance items. Electrostatically applied textured epoxy paint for added durability.
- Enclosed critical grade muffler Quiet, critical grade muffler is mounted inside the unit to prevent injuries.
- Small, compact, attractive Makes for an easy, eye appealing installation, as close as 18" away from a building.

Installation System

- 1 ft (305 mm) flexible fuel line connector Absorbs any generator vibration when connected to rigid pipe.
- Direct-to-dirt composite mounting pad Complex lattice design prevents settling or sinking of the generator system.
- Integral sediment trap Prevents particles and moisture from entering the fuel regulator and engine, prolonging engine life.

9/11 kW

GENERAC® specifications

9/11 kW

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Generator	G007029-0, G007030-0 (9 kW)	G007031-0, G007032-0, G007033-0 (11 kW)
Model		
Rated Maximum Continuous Power Capacity (LP)	9,000 Watts*	11,000 Watts*
Rated Maximum Continuous Power Capacity (NG)	8,000 Watts*	10,000 Watts*
Rated Voltage	240	240
Rated Maximum Continuous Load Current – 240 Volts (LP/NG)	37.5/33.3	45.8/41.7
Total Harmonic Distortion	Less than 5%	Less than 5%
Main Line Circuit Breaker	40 Amp	50 Amp
Phase	1	1
Number of Rotor Poles	2	2
Rated AC Frequency	60 Hz	60 Hz
Power Factor	1.0	1.0
Battery Requirement (not included)	12 Volts, Group 26R 540 CCA Minimum or Group 35AGM 650 CCA Minimum	
Unit Weight (lb/kg)	340/154	348/158
Dimensions (L x W x H) in/mm	48 x 25 x 29/1218 x 638 x 732	
Sound output in dB(A) at 23 ft (7 m) with generator operating at normal load**	66	63

Engine

	GENERAC G-Force 400 Series	GENERAC G-Force 500 Series
Type of Engine		
Number of Cylinders	1	2
Displacement	426 cc	530 cc
Cylinder Block	Aluminum w/ Cast Iron Sleeve	Aluminum w/ Cast Iron Sleeve
Valve Arrangement	Overhead Valve	Overhead Valve
Ignition System	Solid-state w/ Magneto	Solid-state w/ Magneto
Governor System	Electronic	Electronic
Compression Ratio	9.0:1	9.5:1
Starter	12 Vdc	12 Vdc
Oil Capacity Including Filter	Approx. 1.1 qt/1.0 L	Approx. 1.7 qt/1.6 L
Operating rpm	3,600	3,600
Fuel Consumption		
Natural Gas	ft ³ /hr (m ³ /hr)	
1/2 Load	90 (2.55)	107 (3.03)
Full Load	120 (3.4)	159 (4.50)
Liquid Propane	ft ³ /hr (gal/hr) [l/hr]	
1/2 Load	31.6 (.87) [3.29]	44.4 (1.22) [4.62]
Full Load	50 (1.37) [5.2]	71.6 (1.97) [7.45]

Note: Fuel pipe must be sized for full load. Required fuel pressure to generator fuel inlet at all load ranges - 3.5-7" water column (7-13 mm mercury) for natural gas, 10-12" water column (19-22 mm mercury) for LP gas. For Btu content, multiply ft³/hr x 2500 (LP) or ft³/hr x 1000 (NG). For Megajoule content, multiply m³/hr x 93.15 (LP) or m³/hr x 37.26 (NG)

Controls

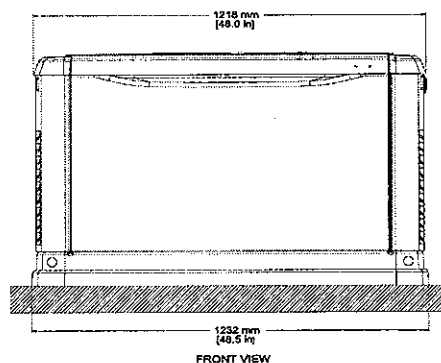
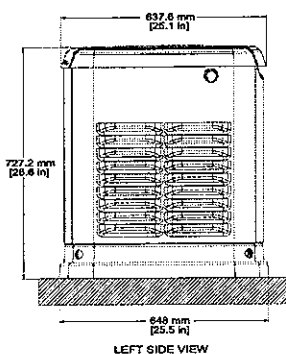
2-Line Plain Text Multilingual LCD Display	Simple user interface for ease of operation.
Mode Buttons: Auto	Automatic Start on Utility failure. 7 day exerciser.
Manual	Start with starter control, unit stays on. If utility fails, transfer to load takes place.
Off	Stops unit. Power is removed. Control and charger still operate.
Ready to Run/Maintenance Messages	Standard
Engine Run Hours Indication	Standard
Programmable start delay between 2-1500 seconds	Standard (programmable by dealer only)
Utility Voltage Loss/Return to Utility Adjustable (Brownout Setting)	From 140-171 V/190-216 V
Future Set Capable Exerciser/Exercise Set Error Warning	Standard
Run/Alarm/Maintenance Logs	50 Events Each
Engine Start Sequence	Cyclic cranking: Engine cranks a maximum of five times at factory set intervals and durations.
Starter Lock-out	Starter cannot re-engage until 5 sec after engine has stopped.
Smart Battery Charger	Standard
Charger Fault/Missing AC Warning	Standard
Low Battery/Battery Problem Protection and Battery Condition Indication	Standard
Automatic Voltage Regulation with Over and Under Voltage Protection	Standard
Under-Frequency/Overload/Stepper Overcurrent Protection	Standard
Safety Fused/Fuse Problem Protection	Standard
Automatic Low Oil Pressure/High Oil Temperature Shutdown	Standard
Overcrank/Overspeed (@ 72 Hz)/rpm Sense Loss Shutdown	Standard
High Engine Temperature Shutdown	Standard
Internal Fault/Incorrect Wiring Protection	Standard
Common External Fault Capability	Standard
Field Upgradable Firmware	Standard

**Sound levels are taken from the front of the generator. Sound levels taken from other sides of the generator may be higher depending on installation parameters. Rating definitions - Standby: Applicable for supplying emergency power for the duration of the utility power outage. No overload capability is available for this rating. (All ratings in accordance with BS5514, ISO3046 and DIN6271). * Maximum kilovolt amps and current are subject to and limited by such factors as fuel Btu/megajoule content, ambient temperature, altitude, engine power and condition, etc. Maximum power decreases about 3.5 percent for each 1,000 feet (304.8 meters) above sea level; and also will decrease about 1 percent for each 6 °C (10 °F) above 16 °C (60 °F).

Model #	Product	Description
G006463-4	Mobile Link™	Generac's Mobile Link allows you to check the status of your generator from anywhere that you have access to an Internet connection from a PC or with any smart device. You will even be notified via e-mail or text message when a change in the generator's status occurs. Available in the U.S. only.
G005819-0	26R Wet Cell Battery	Every standby generator requires a battery to start the system. Generac offers the recommended 26R wet cell battery for use with all air-cooled standby product (excluding PowerPact®).
G007101-0	Battery Pad Warmer	The pad warmer rests under the battery. Recommended for use if the temperature regularly falls below 0°F. (Not necessary for use with AGM-style batteries).
G007102-0	Oil Warmer	Oil warmer slips directly over the oil filter. Recommended for use if the temperature regularly falls below 0°F.
G007103-0	Breather Warmer	The breather warmer is for use in extreme cold weather applications. For use with Evolution controllers only in climates where heavy icing occurs.
G005621-0	Auxiliary Transfer Switch Contact Kit	The auxiliary transfer switch contact kit allows the transfer switch to lock out a single large electrical load you may not need. Not compatible with 50 amp pre-wired switches.
G007027-0	Fascia Base Wrap Kit	The fascia base wrap snaps together around the bottom of the new air cooled generators. This offers a sleek, contoured appearance as well as offering protection from rodents and insects by covering the lifting holes located in the base.
G005703-0	Paint Kit	If the generator enclosure is scratched or damaged, it is important to touch-up the paint to protect from future corrosion. The paint kit includes the necessary paint to properly maintain or touch-up a generator enclosure.
G006482-0 - 9 kW G006483-0 - 11 kW	Scheduled Maintenance Kit	Generac's scheduled maintenance kits provide all the hardware necessary to perform complete routine maintenance on a Generac automatic standby generator.
G006664-0	Wireless Remote Monitor	Completely wireless and battery powered, Generac's wireless remote monitor provides you with instant status information without ever leaving the house. Not compatible with CorePower or EcoGen systems.
G006873-0	Smart Management Module (50 Amps)	Smart Management Modules are used in conjunction with the Automatic Transfer Switch to increase its power management capabilities. It provides additional power management flexibility not found in any other power management system.

dimensions & UPCs

Dimensions shown are approximate. Refer to installation manual for exact dimensions. DO NOT USE THESE DIMENSIONS FOR INSTALLATION PURPOSES.



Model	UPC
G007029-0	696471070293
G007030-0	696471070309
G007031-0	696471070316
G007032-0	696471070323
G007033-0	696471070330

GENERAC

switch options

Limited Circuits Switch Features

- 16 circuits, breakers not included.
- Rated for all classes of load, 100% equipment rated, both inductive and resistive.
- 2 pole, 250 VAC contactors.
- 30 millisecond transfer time.
- Single coil design.
- Main contacts are silver plated or silver alloy to resist welding and sticking.
- NEMA/UL 3R aluminum outdoor enclosure.
- Multi listed for use with 1" standard, tandem, GFCI and AFCI breakers from Siemens, Murray, Eaton and Square D for the most flexible and cost effective install.

Dimensions

	Height		Width		Depth
	H1	H2	W1	W2	
in	26.75	30.1	10.5	13.5	6.91
mm	679.4	764.3	266.7	343.0	175.4

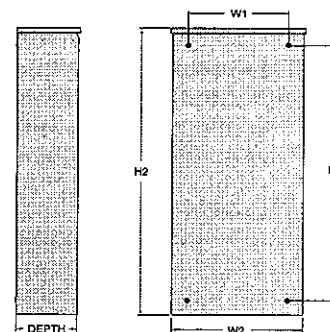
Wire Ranges

Conductor Lug	Neutral Lug	Ground Lug
1/0 - #14	2/0 - #14	2/0 - #14

Model	G007030-0 (9kW)	G007032-0 (11kW)
No. of Poles	2	2
Current Rating (Amps)	100	100
Voltage Rating (VAC)	120/240, 1Ø	120/240, 1Ø
Utility Voltage Monitor (Fixed)*		
-Pick-up	80%	80%
-Dropout	65%	65%
Return to Utility*	approx. 15 sec	approx. 15 sec
Exercises bi-weekly for 12 minutes*†	Standard	Standard
UL Listed	Standard	Standard
Total Circuits Available	16	16
Tandem Breaker Capabilities	8 Tandems	8 Tandems
Circuit Breaker Protected		
Available RMS Symmetrical Fault Current @ 250 Volts	10,000	10,000

*Function of Evolution Controller

† Can be set to weekly or monthly



Service Rated Smart Switch Features

available on 11 kW model only

- Includes Digital Power Management Technology standard (DPM).
- Intelligently manages up to four air conditioner loads with no additional hardware.
- Up to eight more large (240 VAC) loads can be managed when used in conjunction with Smart Management Modules (SMMs).
- Electrically operated, mechanically-held contacts for fast, clean connections.
- Rated for all classes of load, 100% equipment rated, both inductive and resistive.
- Service equipment rated, dual coil design.
- Rated for both aluminum and copper conductors.
- Main contacts are silver plated or silver alloy to resist welding and sticking.
- NEMA/UL 3R aluminum outdoor enclosure.

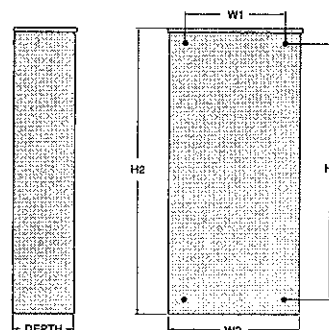
Dimensions

	200 Amps 120/240, 1Ø Open Transition Service Rated				
	Height		Width		Depth
	H1	H2	W1	W2	
in	26.75	30.1	10.5	13.5	6.91
mm	679.4	764.3	266.7	343.0	175.4

Model	G007033-0 (11kW)
No. of Poles	2
Current Rating (Amps)	200
Voltage Rating (VAC)	120/240, 1Ø
Utility Voltage Monitor (Fixed)*	
-Pick-up	80%
-Dropout	65%
Return to Utility*	approx. 13 sec
Exercises bi-weekly for 12 minutes*†	Standard
UL Listed	Standard
Enclosure Type	NEMA/UL 3R
Circuit Breaker Protected	22,000
Lug Range	250 MCM - #6

*Function of Evolution Controller

† Can be set to weekly or monthly



9/11 kW

GENERAC®

GUARDIAN® SERIES
Residential Standby Generators
Air-Cooled Gas Engine

9/11 kW

1 of 5

INCLUDES:

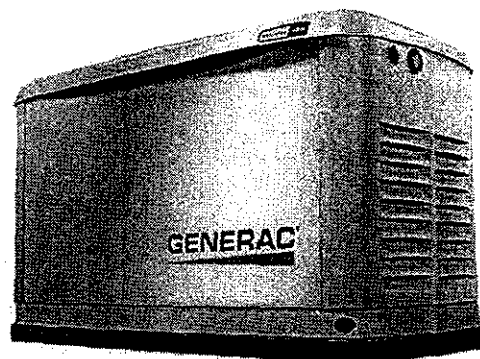
- True Power™ Electrical Technology
- Two Line LCD Multilingual Digital Evolution™ Controller (English/Spanish/French/Portuguese)
- Two Transfer Switch Options Available:
100 Amp 16 Circuit Switch or
200 Amp Service Rated Switch.
See Page 4 for Details.
- Electronic Governor
- System Status & Maintenance Interval LED Indicators
- Sound Attenuated Enclosure
- Flexible Fuel Line Connector
- Direct-To-Dirt Composite Mounting Pad
- Natural Gas or LP Gas Operation
- 5 Year Limited Warranty
- Capability to be installed within 18" (457 mm) of a building*

Standby Power Rating

Models G007029-0, G007030-0 (Aluminum - Bisque) - 9 kW 60 Hz

Models G007032-0, G007033-0 (Aluminum - Bisque) - 11 kW 60 Hz

Model G007031-0 (Aluminum - Bisque) 11 kW 60 Hz



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FEATURES

- **INNOVATIVE ENGINE DESIGN & RIGOROUS TESTING** are at the heart of Generac's success in providing the most reliable generators possible. Generac's G-Force engine lineup offers added peace of mind and reliability for when you need it the most. The G-Force series engines are purpose built and designed to handle the rigors of extended run times in high temperatures and extreme operating conditions.
- **TRUE POWER™ ELECTRICAL TECHNOLOGY:** Superior harmonics and sine wave form produce less than 5% Total Harmonic Distortion for utility quality power. This allows confident operation of sensitive electronic equipment and micro-chip based appliances, such as variable speed HVAC systems.
- **TEST CRITERIA:**
 - ✓ **PROTOTYPE TESTED**
 - ✓ **SYSTEM TORSIONAL TESTED**
 - ✓ **NEMA MG1-22 EVALUATION**
 - ✓ **MOTOR STARTING ABILITY**
- **SOLID-STATE, FREQUENCY COMPENSATED VOLTAGE REGULATION:** This state-of-the-art power maximizing regulation system is standard on all Generac models. It provides optimized FAST RESPONSE to changing load conditions and MAXIMUM MOTOR STARTING CAPABILITY by electronically torque-matching the surge loads to the engine. Digital voltage regulation at $\pm 1\%$.
- **SINGLE SOURCE SERVICE RESPONSE** from Generac's extensive dealer network provides parts and service know-how for the entire unit, from the engine to the smallest electronic component.
- **GENERAC TRANSFER SWITCHES:** Long life and reliability are synonymous with GENERAC POWER SYSTEMS. One reason for this confidence is that the GENERAC product line includes its own transfer systems and controls for total system compatibility.

THE GENERAC
PROMISE



* Built in the USA using domestic and foreign parts.

GENERAC[®]

specifications

9/11 kW

9/11 kW

3 of 5

Generator		G007029-0, G007030-0 (9 kW)	G007031-0, G007032-0, G007033-0 (11 kW)
Model			
Rated Maximum Continuous Power Capacity (LP)		9,000 Watts*	11,000 Watts*
Rated Maximum Continuous Power Capacity (NG)		8,000 Watts*	10,000 Watts*
Rated Voltage		240	240
Rated Maximum Continuous Load Current – 240 Volts (LP/NG)		37.5/33.3	45.8/41.7
Total Harmonic Distortion		Less than 5%	Less than 5%
Main Line Circuit Breaker		40 Amp	50 Amp
Phase		1	1
Number of Rotor Poles		2	2
Rated AC Frequency		60 Hz	60 Hz
Power Factor		1.0	1.0
Battery Requirement (not included)		12 Volts, Group 26R 540 CCA Minimum or Group 35AGM 650 CCA Minimum	
Unit Weight (lb/kg)		340/154	348/158
Dimensions (L x W x H) in/mm			48 x 25 x 29/1218 x 638 x 732
Sound output in dB(A) at 23 ft (7 m) with generator operating at normal load**		66	63
Engine			
Type of Engine		GENERAC G-Force 400 Series	GENERAC G-Force 500 Series
Number of Cylinders		1	2
Displacement		426 cc	530 cc
Cylinder Block		Aluminum w/ Cast Iron Sleeve	Aluminum w/ Cast Iron Sleeve
Valve Arrangement		Overhead Valve	Overhead Valve
Ignition System		Solid-state w/ Magneto	Solid-state w/ Magneto
Governor System		Electronic	Electronic
Compression Ratio		9.0:1	9.5:1
Starter		12 Vdc	12 Vdc
Oil Capacity Including Filter		Approx. 1.1 qt/1.0 L	Approx. 1.7 qt/1.6 L
Operating rpm		3,600	3,600
Fuel Consumption			
Natural Gas			
		ft ³ /hr (m ³ /hr)	
		1/2 Load	90 (2.55)
		Full Load	107 (3.03)
Liquid Propane			
		ft ³ /hr (gal/hr) (L/hr)	
		1/2 Load	31.6 (8.7) [3.29]
		Full Load	50 (1.37) [5.2]
			44.4 (1.22) [4.62]
			71.6 (1.97) [7.45]
Note: Fuel pipe must be sized for full load. Required fuel pressure to generator fuel inlet at all load ranges - 3.5-7" water column (7-13 mm mercury) for natural gas, 10-12" water column (19-22 mm mercury) for LP gas. For Btu content, multiply ft ³ /hr x 2500 (LP) or ft ³ /hr x 1000 (NG). For Megajoule content, multiply m ³ /hr x 93.15 (LP) or m ³ /hr x 37.26 (NG)			
Controls			
2-Line Plain Text Multilingual LCD Display		Simple user interface for ease of operation.	
Mode Buttons: Auto		Automatic Start on Utility failure / 7 day exerciser	
Manual		Start with starter control, unit stays on. If utility fails, transfer to load takes place.	
On		Stops unit. Power is removed. Control and charger still operate.	
Ready to Run/Maintenance Messages		Standard	
Engine Run Hours Indication		Standard	
Programmable start delay between 2-1500 seconds		Standard (programmable by dealer only)	
Utility Voltage Loss/Return to Utility Adjustable (Brownout Setting)		From 140-171 V/190-216 V	
Future Set Capable Exerciser/Exercise Set Error Warning		Standard	
Run/Alarm/Maintenance Logs		50 Events Each	
Engine Start Sequence		Cyclic cranking: Engine cranks a maximum of five times at factory set intervals and durations.	
Starter Lock-out		Starter cannot re-engage until 5 sec after engine has stopped	
Smart Battery Charger		Standard	
Charger Fault/Missing AC Warning		Standard	
Low Battery/Battery Problem Protection and Battery Condition Indication		Standard	
Automatic Voltage Regulation with Over and Under Voltage Protection		Standard	
Under-Frequency/Overload/Stepper Overcurrent Protection		Standard	
Safety Fuses/Fuse Problem Protection		Standard	
Automatic Low Oil Pressure/High Oil Temperature Shutdown		Standard	
Overcrank/Overspeed (@ 72 Hz)/rpm Sense Loss Shutdown		Standard	
High Engine Temperature Shutdown		Standard	
Internal Fault/Incorrect Wiring Protection		Standard	
Common External Fault Capability		Standard	
Field Upgradable Firmware		Standard	

**Sound levels are taken from the front of the generator. Sound levels taken from other sides of the generator may be higher depending on installation parameters. Rating definitions - Standby: Applicable for supplying emergency power for the duration of the utility power outage. No overload capability is available for this rating. (All ratings in accordance with BS5514, ISO3046 and DIN6271). * Maximum kilovolt amps and current are subject to and limited by such factors as fuel Btu/megajoule content, ambient temperature, altitude, engine power and condition, etc. Maximum power decreases about 3.5 percent for each 1,000 feet (304.8 meters) above sea level; and also will decrease about 1 percent for each 6 °C (10 °F) above 16 °C (60 °F).

GENERAC®**features and benefits****9/11 kW****Engine**

- Generac G-Force design
Maximizes engine "breathing" for increased fuel efficiency. Plateau honed cylinder walls and plasma moly rings helps the engine run cooler, reducing oil consumption resulting in longer engine life.
- "Spiny-lok" cast iron cylinder walls
Rigid construction and added durability provide long engine life.
- Electronic ignition/spark advance
These features combine to assure smooth, quick starting every time.
- Full pressure lubrication system
Pressurized lubrication to all vital bearings means better performance, less maintenance and longer engine life. Now featuring up to a 2 year/200 hour oil change interval.
- Low oil pressure shutdown system
Shutdown protection prevents catastrophic engine damage due to low oil.
- High temperature shutdown
Prevents damage due to overheating.

Generator

- Revolving field
Allows for a smaller, light weight unit that operates 25% more efficiently than a revolving armature generator.
- Skewed stator
Produces a smooth output waveform for compatibility with electronic equipment.
- Displaced phase excitation
Maximizes motor starting capability.
- Automatic voltage regulation
Regulates the output voltage to $\pm 1\%$ prevents damaging voltage spikes.
- UL 2200 listed
For your safety.

Transfer Switch (if applicable)

- Fully automatic
Transfers your vital electrical loads to the energized source of power.
- NEMA 3R
Can be installed inside or outside for maximum flexibility.
- Remote mounting
Mounts near your existing distribution panel for simple, low-cost installation.

Evolution™ Controls

- Auto/Manual/Off illuminated buttons
Selects the operating mode and provides easy, at-a-glance status indication in any condition.
- Two-line LCD multilingual display
Provides homeowners easily visible logs of history, maintenance and events up to 50 occurrences.
- Sealed, raised buttons
Smooth, weather-resistant user interface for programming and operations.
- Utility voltage sensing
Constantly monitors utility voltage, setpoints 65% dropout, 80% pick-up, of standard voltage.
- Generator voltage sensing
Constantly monitors generator voltage to ensure the cleanest power delivered to the home.
- Utility interrupt delay
Prevents nuisance start-ups of the engine, adjustable 2-1500 seconds from the factory default setting of 12 seconds by a qualified dealer.
- Engine warm-up
Ensures engine is ready to assume the load, setpoint approximately 5 seconds.
- Engine cool-down
Allows engine to cool prior to shutdown, setpoint approximately 1 minute.
- Programmable exercise
Operates engine to prevent oil seal drying and damage between power outages by running the generator for 12 minutes every other week. Also offers a selectable setting for weekly or monthly operation providing flexibility and potentially lower fuel costs to the owner.
- Smart battery charger
Delivers charge to the battery only when needed at varying rates depending on outdoor air temperature. Compatible with lead acid and AGM-style batteries.
- Main line circuit breaker
Protects generator from overload.
- Electronic governor
Maintains constant 60 Hz frequency.

Unit

- SAE weather protective enclosure
Sound attenuated enclosures ensure quiet operation and protection against mother nature, withstanding winds up to 150 mph. Hinged key locking roof panel for security. Lift-out front for easy access to all routine maintenance items. Electrostatically applied textured epoxy paint for added durability.
- Enclosed critical grade muffler
Quiet, critical grade muffler is mounted inside the unit to prevent injuries.
- Small, compact, attractive
Makes for an easy, eye appealing installation, as close as 18" away from a building.

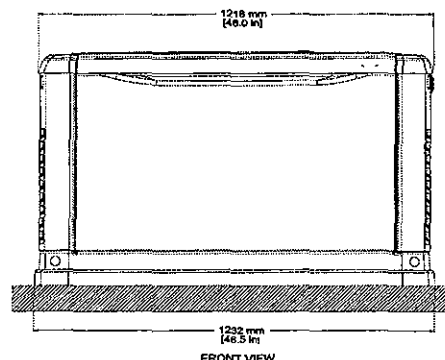
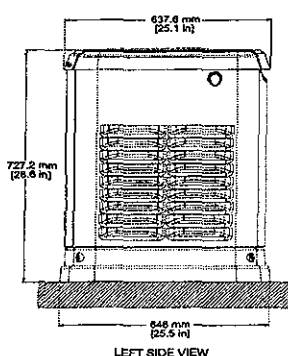
Installation System

- 1 ft (305 mm) flexible fuel line connector
Absorbs any generator vibration when connected to rigid pipe.
- Direct-to-dirt composite mounting pad
Complex lattice design prevents settling or sinking of the generator system.
- Integral sediment trap
Prevents particles and moisture from entering the fuel regulator and engine, prolonging engine life.

Model #	Product	Description
G006463-4	Mobile Link™	Generac's Mobile Link allows you to check the status of your generator from anywhere that you have access to an Internet connection from a PC or with any smart device. You will even be notified via e-mail or text message when a change in the generator's status occurs. Available in the U.S. only.
G005819-0	26R Wet Cell Battery	Every standby generator requires a battery to start the system. Generac offers the recommended 26R wet cell battery for use with all air-cooled standby product (excluding PowerPact®).
G007101-0	Battery Pad Warmer	The pad warmer rests under the battery. Recommended for use if the temperature regularly falls below 0°F. (Not necessary for use with AGM-style batteries).
G007102-0	Oil Warmer	Oil warmer slips directly over the oil filter. Recommended for use if the temperature regularly falls below 0°F.
G007103-0	Breather Warmer	The breather warmer is for use in extreme cold weather applications. For use with Evolution controllers only in climates where heavy icing occurs.
G005621-0	Auxiliary Transfer Switch Contact Kit	The auxiliary transfer switch contact kit allows the transfer switch to lock out a single large electrical load you may not need. Not compatible with 50 amp pre-wired switches.
G007027-0	Fascia Base Wrap Kit	The fascia base wrap snaps together around the bottom of the new air cooled generators. This offers a sleek, contoured appearance as well as offering protection from rodents and insects by covering the lifting holes located in the base.
G005703-0	Paint Kit	If the generator enclosure is scratched or damaged, it is important to touch-up the paint to protect from future corrosion. The paint kit includes the necessary paint to properly maintain or touch-up a generator enclosure.
G006482-0 - 9 kW G006483-0 - 11 kW	Scheduled Maintenance Kit	Generac's scheduled maintenance kits provide all the hardware necessary to perform complete routine maintenance on a Generac automatic standby generator.
G006664-0	Wireless Remote Monitor	Completely wireless and battery powered, Generac's wireless remote monitor provides you with instant status information without ever leaving the house. Not compatible with CorePower or EcoGen systems.
G006873-0	Smart Management Module (50 Amps)	Smart Management Modules are used in conjunction with the Automatic Transfer Switch to increase its power management capabilities. It provides additional power management flexibility not found in any other power management system.

dimensions & UPCs

Dimensions shown are approximate. Refer to installation manual for exact dimensions. DO NOT USE THESE DIMENSIONS FOR INSTALLATION PURPOSES.



Model	UPC
G007029-0	696471070293
G007030-0	696471070309
G007031-0	696471070316
G007032-0	696471070323
G007033-0	696471070330

GENERAC

switch options

9/11 kW

Limited Circuits Switch Features

- 16 circuits, breakers not included.
- Rated for all classes of load, 100% equipment rated, both inductive and resistive.
- 2 pole, 250 VAC contactors.
- 30 millisecond transfer time.
- Single coil design.
- Main contacts are silver plated or silver alloy to resist welding and sticking.
- NEMA/UL 3R aluminum outdoor enclosure.
- Multi listed for use with 1" standard, tandem, GFCI and AFCI breakers from Siemens, Murray, Eaton and Square D for the most flexible and cost effective install.

Dimensions

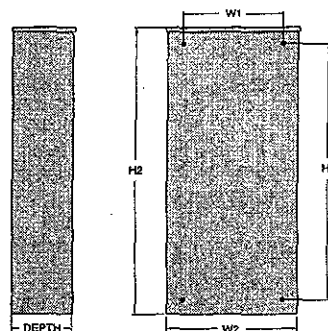
	Height		Width		Depth
	H1	H2	W1	W2	
in	26.75	30.1	10.5	13.5	6.91
mm	679.4	764.3	266.7	343.0	175.4

Wire Ranges		
Conductor Lug	Neutral Lug	Ground Lug
1/0 - #14	2/0 - #14	2/0 - #14

Model	G007030-0 (9kW)	G007032-0 (11kW)
No. of Poles	2	2
Current Rating (Amps)	100	100
Voltage Rating (VAC)	120/240, 1Ø	120/240, 1Ø
Utility Voltage Monitor (Fixed)*		
-Pick-up	80%	80%
-Dropout	65%	65%
Return to Utility*	approx. 15 sec	approx. 15 sec
Exercises bi-weekly for 12 minutes*†	Standard	Standard
UL Listed	Standard	Standard
Total Circuits Available	16	16
Tandem Breaker Capabilities	8 Tandems	8 Tandems
Circuit Breaker Protected		
Available RMS Symmetrical	10,000	10,000
Fault Current @ 250 Volts		

*Function of Evolution Controller

† Can be set to weekly or monthly



Service Rated Smart Switch Features

available on 11 kW model only

- Includes Digital Power Management Technology standard (DPM).
- Intelligently manages up to four air conditioner loads with no additional hardware.
- Up to eight more large (240 VAC) loads can be managed when used in conjunction with Smart Management Modules (SMMs).
- Electrically operated, mechanically-held contacts for fast, clean connections.
- Rated for all classes of load, 100% equipment rated, both inductive and resistive.
- Service equipment rated, dual coil design.
- Rated for both aluminum and copper conductors.
- Main contacts are silver plated or silver alloy to resist welding and sticking.
- NEMA/UL 3R aluminum outdoor enclosure.

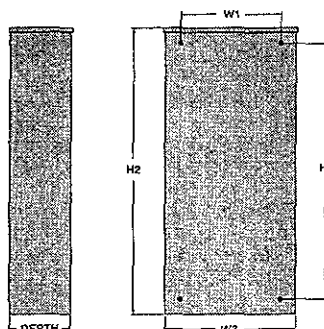
Dimensions

	200 Amps 120/240, 1Ø Open Transition Service Rated				
	Height		Width		Depth
	H1	H2	W1	W2	
in	26.75	30.1	10.5	13.5	6.91
mm	679.4	764.3	266.7	343.0	175.4

Model	G007033-0 (11kW)
No. of Poles	2
Current Rating (Amps)	200
Voltage Rating (VAC)	120/240, 1Ø
Utility Voltage Monitor (Fixed)*	
-Pick-up	80%
-Dropout	65%
Return to Utility*	approx. 13 sec
Exercises bi-weekly for 12 minutes*†	Standard
UL Listed	Standard
Enclosure Type	NEMA/UL 3R
Circuit Breaker Protected	22,000
Lug Range	250 MCM - #6

*Function of Evolution Controller

† Can be set to weekly or monthly



RECEIVING CLERK: [Signature]
DATE REC'D: 10/14/17

ZONING PERMIT APPLICATION

PERMIT # 2P-17-01287
DATE ISSUED 10/19/17

BLOCK: 1170-07 LOT: \$10 QUALIFIER: — SITE ADDRESS: 165 WALTER ROAD

IDENTIFICATION:

1. NAME OF OWNER IN FEE: NEHL
COMPLETE ADDRESS: 165 WALTER ROAD
BRICK
PHONE: [Redacted] EMAIL: —

2. NAME OF APPLICANT: PLY Electric LLC
APPLICANT ADDRESS: 919 Hwy 33 Suite 47
Friedhold NJ 07728
Lic# 16739 732 332 5310
PHONE # — EMAIL: ply@plyelectric.com

3. RESPONSIBLE PERSON FOR WORK: Paul Veltkamp
PHONE # 732-222-5310 FAX # 732-222-5320

4. SIGNATURE OF APPLICANT: [Signature]

FOR OFFICE USE ONLY

FEE SUMMARY:

APPLICATION FEE: \$ 75-
OTHER: \$ —
TOTAL: \$ 75-

REQUIRED BY APPLICANT

RESIDENTIAL: ✓
COMMERCIAL: —
EXISTING USE: SFD
PROPOSED USE: SFD

BOARD APPROVAL: — PB — ZB —
RESOLUTION #: —
APPROVAL DATE: —

PROJECT DESCRIPTION: (PLEASE CHECK APPLICABLE WORK & DESCRIBE)

*NEW BUILDING: — *ADDITION — *ALTERATION — *PORCH — *DECK —

POOL: ABOVE GROUND — IN GROUND — FENCE: HEIGHT — TYPE — MATERIAL —

HEIGHT: — (*IF APPLICABLE)

OTHER: —

DESCRIPTION: Install new driveway 2'x4'x20'

ZONING REVIEW: —

DATE REVIEWED: 10-5-17 DATE DENIED: — DATE APPROVED: 10-5-17 INTLS: 2

(SEE BACK PAGE)

OFFICE USE ONLY

RECEIVED

OCT 05 2017

ZONING

SGZ

ZONING REVIEW:

DATE REVIEWED: 10/5/17 DATE DENIED: DATE APPROVED: 10/6/17 INTLS: SGZ

DATE: COMMENTS:

10/6/17

SENT TO COUNCIL

INITIALS:

SGZ



MECHANICAL INSPECTION TECHNICAL SECTION



A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION, WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 11700 Lot 810 Qualification Code 810

Work Site Location 145 W. 6th St. Bldg

Owner ABAL

Tel. [REDACTED] e-mail [REDACTED]

Address 50th St Municipality [REDACTED] zip code [REDACTED]

Contractor AK Aire LLC Tel. 732 416-7719

Address 17 Main Street e-mail [REDACTED]

So. Over N 0882 Exp. Date 6/18

Contractor License No. 15HC00013400

Home Improvement Cont. [REDACTED] Reason (if applicable) [REDACTED]

Federal Emp. ID No. [REDACTED] FAX: 732 416-7721

B. MECHANICAL CHARACTERISTICS

Use Group Present: R-3, R-4, or R-5 (circle one) Proposed: R-3, R-4, or R-5 (circle one)

Heating System work: ☐ New or ☐ Modification to Existing or ☐ Conversion or ☐ Replacement

Type: ☐ Hydronic ☐ Hot Air

Fuel Type: ☐ Gas ☐ Oil ☐ Electric ☐ Solar ☐ Other [REDACTED]

Estimated Cost of Mechanical Work \$ 1500

JOB SUMMARY (Office Use Only)

PLAN REVIEW

☐ No Plans Required

☒ Mechanical Plans Approved

Date: [REDACTED] Approved by: [REDACTED]

Joint Plan Review Required:

☐ Bldg. ☐ Elec. ☐ Plumb. ☐ Fire

☐ Elev.

SUBCODE APPROVAL FOR PERMIT

Date: 10-12-17

Approved by: [REDACTED]

SUBCODE APPROVAL FOR CERTIFICATE

Date: 11-15-17

Approved by: [REDACTED]

INSPECTIONS

Type: [REDACTED]

Gas Piping

Appliance

Chimney/Vent

Oil Piping

Oil Tank

LPG Tank

Hydronic Piping

Fireplace

Chimney Cert.

Other FWL

DATES

Failure [REDACTED]

Approval 11-3-17

Initial WMT

DESCRIPTION OF WORK

GAS PIPING

Date Received

Control # 10/19/17

Date Issued

Permit # 17 3499

C. STATE OF NEW JERSEY, DEPARTMENT OF COMMUNITY AFFAIRS, DIVISION OF CONSTRUCTION, hereby authorizes to make this application.

PERMITS

D. TECHNICAL INFORMATION

NO.

FIXTURE/EQUIPMENT

Water Heater

Fuel Oil Piping Connections

Gas Piping Connections

Steam Boiler

Hot Water Boiler

Hot Air Furnace

Oil Tank

LPG Tank

Fireplace

Generator

FEE (Office Use Only)

\$

Administrative Surcharge \$

Minimum Fee \$

State Permit Surcharge Fee \$

TOTAL FEE \$



ELECTRICAL SUBCODE TECHNICAL SECTION



A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS NOTIFY THIS OFFICE. **UTILITY DIG NO: 1-800-272-1000.**
 Block 17001 Lot 165 WALTER RD Qualification Code _____
 Work Site Location _____

Owner in Fee: NESAL
 Tel. _____ e-mail _____

Address SAME Street _____ Municipality _____ Zip code _____

Contractor: PLV Electric LLC Tel. (____) _____
 Address 919 Hwy 33 Suite 47 e-mail _____
 Contractor License No. Freehold NJ 07728 Exp. Date 3/18

Home Improvement Contractor Registration No. of Exemption Reason (if applicable):
 Federal Emp. ID No. _____ FAX: (____) _____

B. ELECTRICAL CHARACTERISTICS

Use Group Present _____ Proposed _____
☐ Pole/Pad # _____ ☐ Temporary ☐ Other _____
 Building Occupied as _____ Utility Co. _____
 Est. Cost of Elec. Work \$ 1700.00

JOB SUMMARY (Office Use Only)		INSPECTIONS		Dates (Month/Day)	
PLAN REVIEW		Type:	Failure	Approval	Initial
☐ No Plans Required		Rough			
☐ Partial -Under/ab Utilities Approved		Barrier-Free			
Date: _____ Approved by: _____		Trench			
☒ Electric Plans Approved		Temp. Serv.			
Date: <u>10/10/17</u> Approved by: <u>PEC</u>		Constr. Serv.			
Joint Plan Review Required:		TCO			
☐ Bldg. ☐ Plumb. ☐ Fire. ☐ Elev.		Other			
SUBCODE APPROVAL for PERMIT		Service			
Date: _____		Barrier-Free			
Approved by: _____		Temp. Cut-in-Card Date Issued			
SUBCODE APPROVAL for CERTIFICATE		Final Cut-in-Card Date Issued			
☐ CO ☐ CCO ☒ CA		Annual Pool Inspection			
Date: <u>11/15/17</u>		Date of Grounding and Bonding			
Approved by: _____		Certification			

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application and perform the work listed on this application.

Applicant's Signature/Contractor's Seal and Signature

☒ Licensed Elec. Contractor ☐ Certifd Landscape Irrigation Contr. ☐ Exempt Applicant

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK
9kw GENERATOR
16 CIRCUIT ATS.

Date Received
 Control #
 Date Issued
 Permit #

10/19/17
 17-3499

QTY.	SIZE	ITEMS	FEE (Office Use Only)
		Lighting Fixtures	
		Receptacles	
		Switches	
		Detectors	
		Light Poles	
		Motors—Fract. HP	
		Emergency & Exit Lights	
		Communications Points	
		Alarm Devices/F.A.C. Panel	
		TOTAL NUMBERS	
		Pool Permit/with UW Lights	
		Storable Pool/Spa/Hot Tub	
		KW Elec. Range/Receptacle	
		KW Oven/Surface Unit	
		KW Elec. Water Heater	
		KW Elec. Dryer/Receptacle	
		KW Dishwasher	
		HP Garbage Disposal	
		KW Central A/C Unit	
		HP/KW Space Heater/Air Handler	
		KW Baseboard Heat	
		HP Motors 1/4 HP	
		KW Transformer/Generator	
		AMP Service	
		AMP Subpanels	
		AMP Motor Control Center	
		KW Elec. Sign/Outline Light	
		AMP ATS	

Administrative Surcharge \$ _____
 Minimum Fee \$ _____
 State Permit Surcharge Fee \$ _____
 TOTAL FEE \$ _____

RECEIVING CLERK: _____
PERMIT #: _____

BLOCK: 1170.07 ENGINEERING PERMIT APPLICATION
440-7 LOT: 87D ADDRESS: _____

IDENTIFICATION:

1. WORK SITE ADDRESS: _____

165 WALTER ROAD

2. NAME OF OWNER IN FEE: _____

NEAL

ADDRESS: Same

PHONE # _____

FAX #: () _____

3. PRINCIPAL CONTRACTOR: _____

PLV BLAINE LLC

ADDRESS: 919 CT 33 SUITE 47

PHONE #: (788) 222-5310

FAIRFIELD NJ 07128

FAX #: (788) 222-5320

4. ARCHITECT OR ENGINEER: _____

ADDRESS: _____

PHONE: # () _____

5. RESPONSIBLE PERSON FOR WORK: _____

Paul V. Blain

ADDRESS: 919 CT 33 SUITE 47 FAIRFIELD NJ 07128

PHONE #: (788) 222-5310 FAX #: (788) 222-5320 E-MAIL: Paul@VBlain.com

FEE SUMMARY:

APPLICATION FEE: \$ _____

REVIEW FEE: \$ _____

INSPECTION FEE: \$ _____

OTHER: \$ _____

BOND(S): \$ _____

TOTAL: \$ _____

SPECIAL CONDITIONS:

OCEAN COUNTY SOILS: _____

DRAINAGE EASEMENTS: _____

UTILITY EASEMENTS: _____

CONSERVATION EASEMENTS: _____

FEMA REQUIREMENTS: _____

D.E.P. PERMITS: _____

BOARD APPROVAL: ☐ PB ☐ ZB

APPLICATION NUMBER: _____

APPROVED DATE: _____

PROJECT DESCRIPTION: ☐ GRADING/CLEARING ☐ ROAD OPENING

☐ SOIL REMOVAL/FILL ☐ RETAINING WALL ☐ POOL

☐ BULKHEAD/DOCK ☐ DWELLING ☐ TREE REMOVAL

☐ OTHER LIEN/REPAIR

LENGTH: 44'

WIDTH: 25'

HEIGHT: 28'

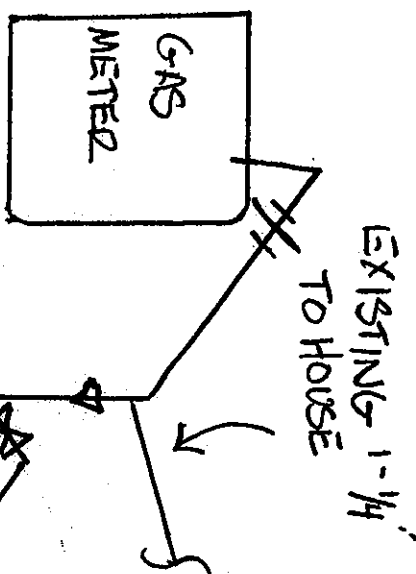
ENGINEERING REVIEW: _____

DATE RECEIVED: _____

DATE REJECTED: _____

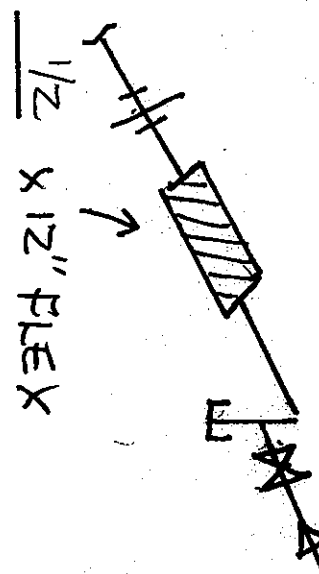
DATE APPROVED: _____

INITIALS: _____



RE: NEW 9 KW GENERATOR
 120,000 BTU'S @ FULL LOAD
 15 FT OF 1" PIPE FROM METER

NEW 1" to GENERATOR



PLUMBING
 OCT 13 2007
 APPROVED

BLK 1170.07

LOT

\$10



CONSTRUCTION PERMIT

Date Issued 10/16/17
Control # C-17-004414
Permit # 17-3449

IDENTIFICATION Block: 1170.07 Lot: 10 Qualifier _____
Work Site Location: 165 WALTER RD. Brick Township, NJ Contractor PLV Electric LLC
Address 919 RT 33 STE 47 FREEHOLD NJ 07728
Owner in Fee NEAL RUTH CAROL
165 WALTER RD. BRICK NJ 08724 Telephone: (732) 222-5310
Lic. No. or Bldrs. Reg. No. 13VH08118400 34EI01573900
Telephone: _____ Federal Employee No. 18739

Is hereby granted permission to perform the following work:

- ☐ BUILDING ☐ PLUMBING ☐ LEAD HAZARD ABATEMENT
☒ ELECTRICAL ☐ FIRE PROTECTION ☐ DEMOLITION
☐ ELEVATOR DEVICES ☐ ASBESTOS ABATEMENT (Subchapter 8 only) ☒ OTHER

DESCRIPTION OF WORK:

GENERATOR

Note: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.

Estimated Cost of Work \$3,200

D. Neuman 10/16/17
Construction Official Date

U.C.C. F170
equiv (rev 1/04)

1 WHITE - INSPECTOR

2 CANARY - OFFICE

3 PINK - TAX ASSESSOR

4 GOLD - APPLICANT

PAYMENTS (Office Use Only)

Building	\$0
Electrical	\$150
Plumbing	\$0
Fire Protection	\$0
Elevator Devices	\$0
Other	\$125.00
DCA Training Fee	\$6
CO Fee	\$0
Other	\$0
Total	\$281
Check No.	<u>2334</u>
Cash	\$0
Credit	\$0
Collected By	<u>M. Fagan</u>

+75
356

REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that the work installed conforms with the requirements of the Uniform Construction Code.

The owner or other responsible person in charge of work must notify this agency when work is ready for any required inspections specified below. Requests for inspections must be made at least 24 hours prior to the time the inspection is desired. Inspections will be performed within three business days of the time for which they are requested. The work must not proceed in a manner which will preclude the inspection until it has been made and approval granted.

☒ Required inspections for all subcodes for one- and two-family dwellings are as follows:

1. The bottom of footing trenches before placement of footings, except that in cases of pile foundations, inspections shall be made in accordance with the requirements of the building subcode.
2. Foundations and all walls up to grade level prior to back filling.
3. All structural framing, connections, wall and roof sheathing and insulation; electrical rough wiring, panel and service installation; rough plumbing. The framing inspection shall take place after the rough electrical and plumbing inspections and after the installation of the heating, ventilation and /or air conditioning duct system. The insulation inspection shall be performed after all other subcode rough inspections and prior to the installation of any interior finish material.
4. Installation of all finished materials, sealings of exterior joints, plumbing piping, trim and fixtures; electrical wiring, devices and fixtures; mechanical systems equipment.

Additional required inspections for all subcodes of construction, for other than one- and two-family dwellings, are fire suppression systems, heat producing devices and Barrier Free subcode accessibility, if applicable.

☐ Required special inspections. The applicant by accepting the permit will be deemed to have consented to these requirements:

☒ A final inspection is required for each applicable subcode area before a final Certificate of Occupancy or Approval may be issued. The final inspections include the installation of all interior and exterior finish materials, sealing of exterior joints, mechanical system and other required equipment; electrical wiring, devices and fixtures; plumbing pipes, trim and fixtures; tests required by any provision of the adopted subcodes, Barrier Free accessibility, if applicable; and verification of compliance with NJAC 5:23-3.5, "Posting structures".

☒ A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.

TOWNSHIP OF BRICK

RELEASED FOR PERMIT INITIAL DATE

Building Subcode _____

Plumbing Subcode _____

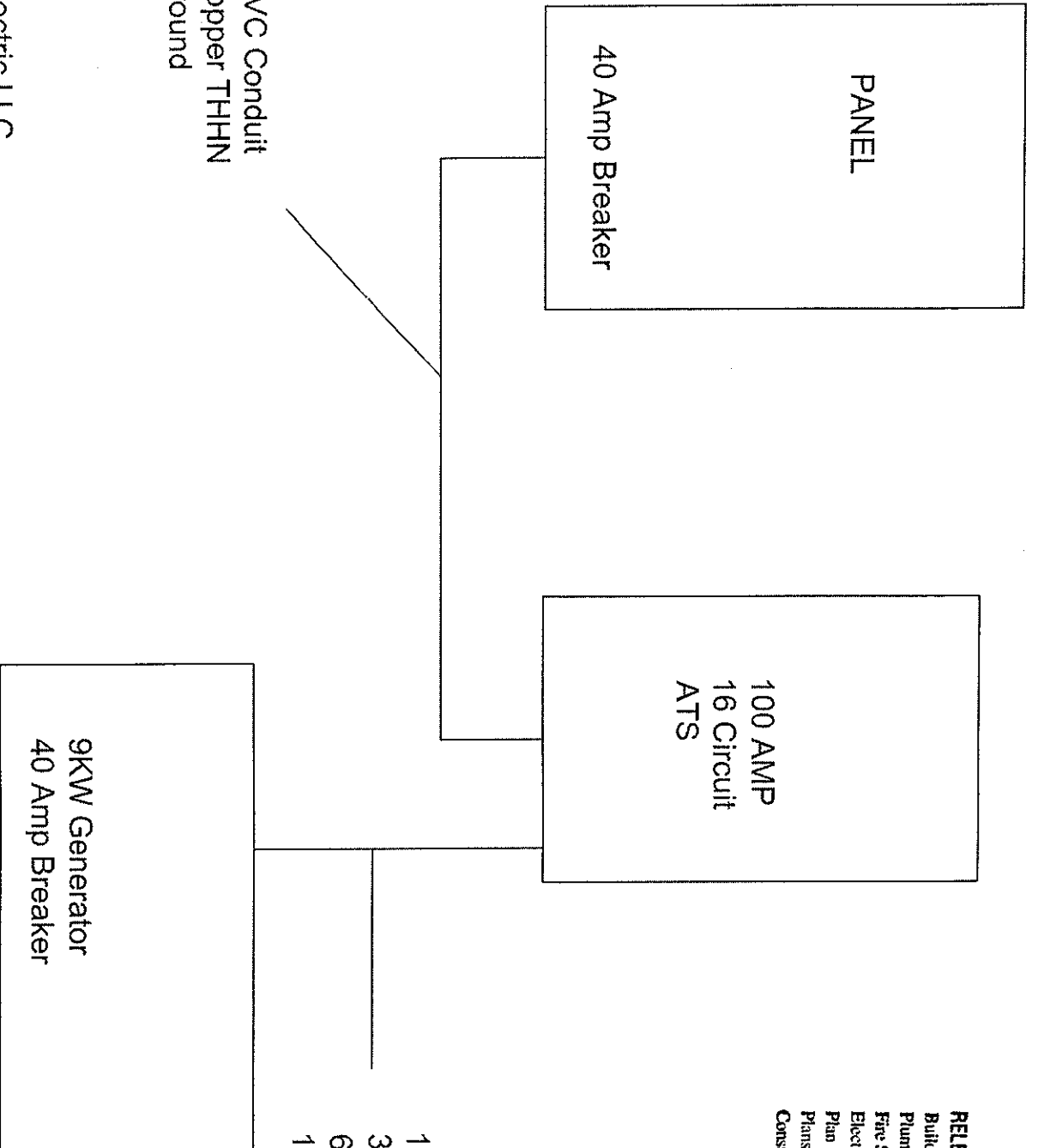
Fire Subcode _____

Electrical Subcode _____ *PSC 10/10/13*

Plan Reviewer _____

Plans Released _____

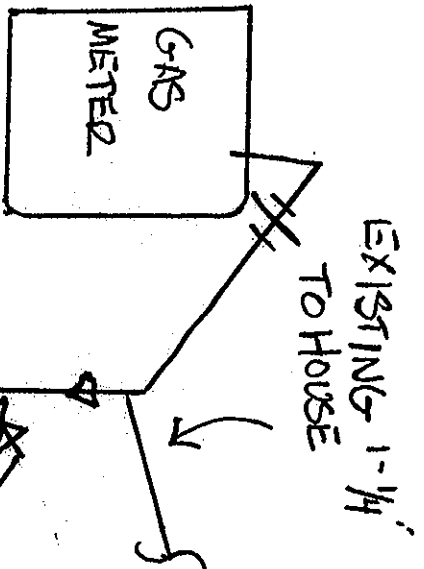
Construction Official _____



PLV Electric LLC
919 Hwy 33 UNIT 47
Freehold NJ 07728
LIC 15739

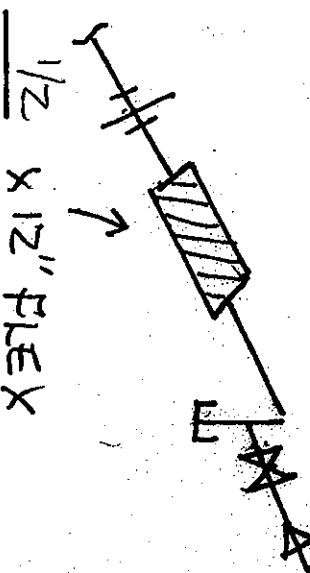
FILE COPY





RE: New 9 KW GENERATOR
 120,000 BTU'S @ FULL LOAD
 15 FT OF 1" PIPE FROM METER

New 1" to GENERATOR



PLUMBING
 OCT 12 2017
 APPROVED

BLK 1170, NE

LOT

510



Brick Township
401 Chambers Bridge Rd.
Brick, NJ 08723
(732) 262-1336

Date Issued: 10/19/17
Application Number: ZA-17-01282
Application Date: 10/5/2017
Project Number: _____
Permit Number: ZP-17-01287
Fee: \$75.00

Zoning Permit

Worksite **165 WALTER RD.**
Location: **Brick Township, NJ 08724**

Block: **1170.07**
Lot: **10**
Qualifier: _____
Zone: **R-7.5**

Owner: **NEAL, RUTH CAROL**
Address: **165 WALTER RD.**
BRICK, NJ 08724

Applicant: **PLV Electric LLC**
Address: **919 RT 33 STE 47**
FREEHOLD, NJ 07728

Application Approved Date: 10/5/2017

This Certifies that an application for the issuance of a Zoning Permit has been examined.

Use is: Single-Family Residential

Nonconforming Use is: _____

Work Description:

Generator, Standby - 9kW Generator Standby

The generator must be setback at least 25' from the front property line, 6'/15' combined on the side property line, and 15' from the rear property line.

Additional Zoning Permit is required for additional work.

Upon review it was determined that the Zoning Permit:

- ☒ Permitted by Ordinance
☐ Permitted by Variance approved on: _____
☐ Valid Nonconforming Use is established by
 ☐ Zoning Board of Adjustment
 ☐ Zoning Officer

Christopher J. Romano, Assistant Zoning Officer

10/5/2017

Date

Sean Kinnevy, Zoning Officer

10/5/17

Date

Generac Power Systems, Inc.
646 W20200 Hwy. 59
Waukeesa, Wisconsin 53189

P (262) 544-4811
F (262) 968-3791

GENERAC

August 1, 2016

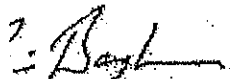
RE: Readily Accessible Disconnecting Means for Generators

To whom it may concern,

There have been concerns over the relocation of the readily accessible generator disconnecting means that is required in the NEC in 445.18 and 702.12 from the outside of the generator enclosure to the inside of the locked generator enclosure. Since the 2008 edition of the NEC, electrical rooms or equipment that house electrical apparatuses that are controlled by locks shall be considered accessible. During the 2016 revision cycle for the 2017 NEC, Code Making Panel 1 revised the definition of Accessible, Readily to the following: "Capable of being reached quickly for operation, renewal, or inspections without requiring those to whom ready access is requisite to take actions such as to use tools other than keys), to climb over or under, to remove obstacles, or to resort to portable ladders, and so forth". A new Informational Note was also provided as states the following: "Use of keys is a common practice under controlled or supervised conditions and a common alternative to the ready access requirements under such supervised conditions as provided elsewhere in the NEC."

The use of a key to access a disconnecting means that is located behind a locked cover that is part of a listed piece of electrical equipment is considered to meet the definition of Readily Accessible. The end user of the generator is permitted to control the condition of ready access to the generator disconnecting means by locking the generator enclosure.

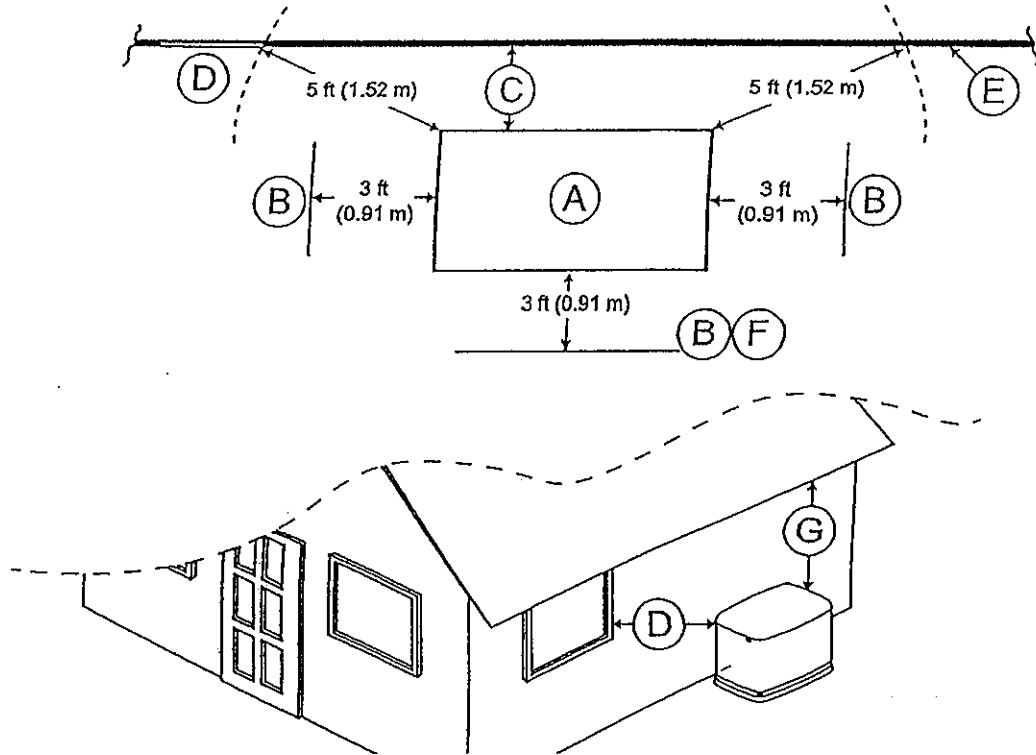
sards,



J. Baughman
of Wisconsin Electrical Inspector
of Wisconsin Master Electrician
Generac Power Systems, Inc.

Section 3: Site Selection and Preparation

Site Selection



001751

001789

Figure 3-1. Installation Clearances

ID	Description	Comments
A	Top of generator	—
B	Front and end clearance	Minimum clear distances cannot include shrubs, bushes, or trees.
C	Rear clearance	18 in (45.7 cm) minimum clearance per NFPA testing, labeling, and listing, unless state or local codes dictate otherwise.
D	Windows and openings	No operable windows, doors, or openings in the wall are permitted within 5 ft (1.52 m) from any point of the generator.
E	Existing wall	One-hour fire rated walls allow closer placement of the generator set. Confirm before installation.
F	Removable fence	Removable fence panels for servicing cannot be placed less than 3 ft (0.91 m) in front of the generator.
G	Overhead clearance	5 ft (1.52 m) minimum distance from any structure, overhang, or projections from the wall. DO NOT install under wooden decks or structures unless this distance is maintained.

Generac Power Systems, Inc.
545 W20200 Hwy. 59
Waukegan, Wisconsin 53189
P (262) 544-4811
F (262) 868-3781

GENERAC

August 1, 2016

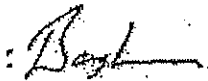
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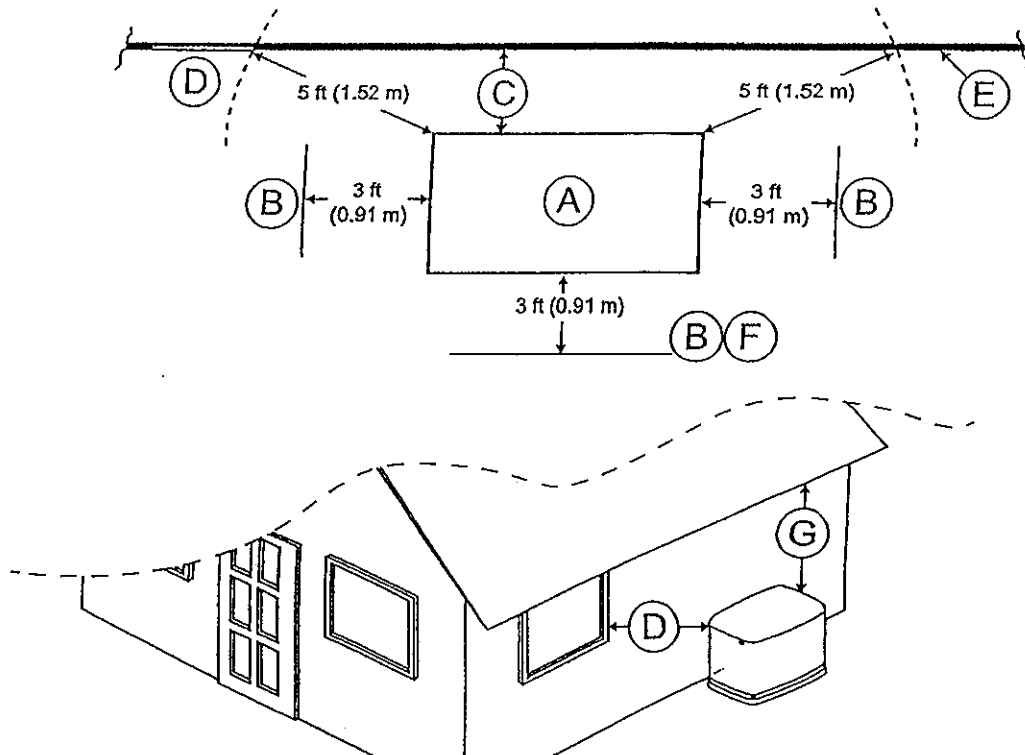
s,



Baughman
Wisconsin Electrical Inspector
Wisconsin Master Electrician
Generac Power Systems, Inc.

Section 3: Site Selection and Preparation

Site Selection



001751

001789

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GENERAC

PLV ELECTRIC LLC
919 state route 33
suite 47
freehold, NJ 07728
(732) 963-5392
www.njgenerators.com

Sizing Report

Rated Nominal Voltage 240
Generator Fuel Choice Natural Gas
Sizing Method (NEC 220) Part IV
(Part III required for selected circuit implementation, Both valid for whole house)

General Lighting & Receptacles		Load (kW)
Square Footage Being Covered (ft ²)	965	2.895
Small Appliance Circuits (20 amps)		
Kitchen Circuits	2	3
Laundry Circuits	1	1.5

	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
Fixed-In-Place Appliances & Motors					
Microwave		1.3			1.3
Furnace (Forced Air)		0.7			0.7
Dishwasher		1.5			1.5
Refrigerator		0.8			0.8

	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
Air Conditioning & Cooling					
2.5 Ton Unit	X	2.5		X	0.0

	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
Heating & Heat Pumps					

	Estimated (LRA)	Actual (LRA)	Utilized (LRA)
Transient Requirement			
Largest Motor's Starting Amps (LRA)	72	73	73

State Of New Jersey
New Jersey Office of the Attorney General
Division of Consumer Affairs

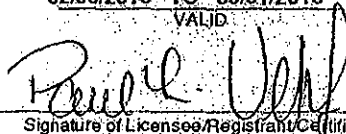
THIS IS TO CERTIFY THAT THE
Board of Exam. of Electrical Contractors

HAS LICENSED

PLV ELECTRIC LLC
PAUL L. VEHLING
605 Broadway
Long Branch NJ 07740

FOR PRACTICE IN NEW JERSEY AS A(N): Electrical Business Permit

02/06/2015 TO 03/31/2018
VALID


Signature of Licensee/Registrant/Certificate Holder

34EB01573900
LICENSE REGISTRATION CERTIFICATION #

ACTING DIRECTOR

State Of New Jersey
New Jersey Office of the Attorney General
Division of Consumer Affairs

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Board of Exam. of Electrical Contractors

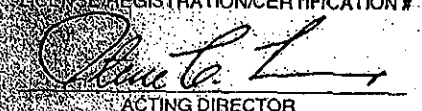
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Paul L. Vehling
605 Broadway
Long Branch NJ 07740

FOR PRACTICE IN NEW JERSEY AS A(N): Electrical Contractor

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VALID


Signature of Licensee/Registrant/Certificate Holder

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Division of Consumer Affairs

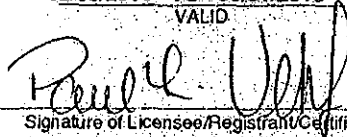
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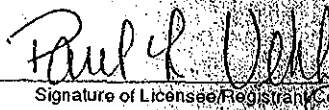
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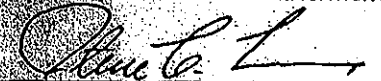
02/06/2015 TO 03/31/2018
VALID



Signature of Licensee/Registrant/Certificate Holder

34EI01573900

LICENSE/REGISTRATION/CERTIFICATION #



ACTING DIRECTOR

Township of Brick

GENERATOR CHECKLIST

REVISED 12/30/16

1. Construction Jacket signed & completed – Front and inside the jacket filled out completely	Yes ☒	No ☐
2. Zoning Application completely filled out (All Sections)	Yes ☒	No ☐
3. Engineering Form completely filled out (All Sections)	Yes ☒	No ☐
4. Four true size surveys to scale showing all dimensions & setbacks of existing and proposed structures.	Yes ☒	No ☐
5. Electrical & Mechanical Sub-code Forms completed Make sure forms are completed including section B. Mechanical Characteristics	Yes ☒	No ☐
6. Building Sub-code Tech needed for Generators being put on a platform Submit 2 copies of the platform construction details including platform elevation either signed & sealed by a design professional or signed by Homeowner with the Certification in Lieu of Oath signed by Homeowner	Yes ☐	No ☐
7. Two (2) gas pipe drawings – BTU's , length and size of pipe	Yes ☒	No ☐
8. Two (2) Electrical line drawings with conduit, wire sizes, and ampereage. Indicate Kw load and load shedding.	Yes ☒	No ☐
9. Two (2) copies of brochure for Generator	Yes ☒	No ☐
10. Two (2) copies of manufacturers installation requirements including clearances	Yes ☒	No ☐
11. Copy of current Home Improvement Contractor Registration/HVACR License if work is being done by Contractor	Yes ☒	No ☐