

**Emergency Power Plan Guideline for 58AER17-1 and 59AER17-1**

1. Basic information concerning the facility:
  - a. Name of facility: **Spring Oaks**
  - b. Type of facility: **Assisted Living / Memory Care**
  - c. License Number: **10763**
2. Identify the area(s) in your facility that you plan to keep below 80 degrees: **common area and hallways -all rooms powered by individual PTAC units. Whole building**
3. What is the square footage of the cooled area? **35,000**
4. Identify what kind of equipment will be used to cool the areas identified (HVAC, Portable A/C, Window A/C): **HVAC**
5. Identify how many people (residents and staff) the area to be cooled will accommodate: (joint between ED and environmental) **80-100**
6. Please provide a statement for how you plan to move residents to this location:

**Executive Director or designee will assign staff to relocate residents to a predetermined location. Notification of residents of cooled areas of the community and assisting as needed.**
7. Will beds be available in the cooled area?
  - a. *If yes, how many: --* **100 cots**
  - b. Are the beds located on site? **Stored at a central location offsite.**
8. Describe how staff will ensure the area does not exceed 80 degrees and how often the temperature will be monitored: **Wall Mounted thermostats will be used to monitor temps. For the duration of the outage.**

9. Describe where the generator is located at your facility: **Holiday Retirement has contracted with Covenant Services Inc. to provide assessment and recommendations for generator selection and installation. The plans and the timeline are currently in process and will be submitted immediately upon receipt of Holiday .**
10. Describe make, model and size of generator(s). Is the generator fixed or portable? **See response #9 for make, model & size. generator will be fixed.**
11. If your facility is planning on installing a fixed generator, describe the construction. **Will follow manufacturer's specs. once a generator is selected.**
12. Describe what emergency features the generator is capable of powering (lights, fridge, A/C, etc.) **Need specifics**
13. Provide a maintenance schedule for both the generator and HVAC system (include mechanism for load testing and documentation of test): **--maintenance schedule will be provided once the new generator is installed. Schedule will be created based on the generator manual specifications an implemented immediately. The HVAC system will have filter changes every 90 days an coil cleaned biannual .**
14. Describe the fuel type you will need to operate the generator: **See response #9**
15. Describe how you plan on storing 96 hours of fuel on-site: **See response #9**
16. State the procedure for how your facility will refuel before and after an emergency. If a fuel agreement is established, please provide the agreement: **- The Community will monitor the fuel supply monthly and ensure a full tank is maintained. He community does not have a fuel agreement established as there was no demonstrated advantage to having an agreement during hurricane Irma. Instead the company has established a relationship with Sitefuel and they are on standby when refueling is necessary. During a power outage event fuel supply will be monitored and documented every 12 hours. Refueling will be requested when the tank reduces to ¼ of a tank.**
17. Provide a training procedure to ensure staff is aware of how to operate the emergency power to the facility: **All staff will be in serviced on the emergency power procedure upon hire and annually thereafter.**
18. Describe how new staff will be informed of the emergency power plan. **All staff will be in serviced on the emergency power plan upon hire and annually thereafter.**



# Covenant Services, Inc.

18 Village Plaza, Shelbyville KY 40065  
(502)471-4801

10/30/17

Rob Burch  
Spring Oaks  
7251 Grove Rd  
Brooksville, FL 34613

Mr. Burch,

We have visited your facility at your request and have prepared an Electrical Design to simplify your compliance with Florida Department of Elder Affairs Rule number 58AER17-1 Procedures Regarding Emergency Environmental Control for Assisted Living Facilities.

After reviewing your site layout and 12 months of Utility Demand readings, we have determined the least invasive and least cost alternative is to provide you with a Standby Emergency Generator capable of supplying your entire facilities' electrical load. The proposed generator includes a fuel tank designed to provide 96 hours of runtime at 100% load, which will exceed the mandatory run capacity as the generator will not be required to operate at 100% load.

Attached please find our proposal and equipment data sheets, which when signed along with a mutually agreed upon General Services Agreement and upon receipt of a 50% Material and Mobilization deposit, shall constitute a complete contract.

Equipment is custom built to order and is estimated to require 15 to 17 weeks to deliver, however permitting and construction of concrete pads, conduit and installation of the Automatic Transfer Equipment can commence prior to delivery of the Genset. Our estimation for total project completion is 23 weeks from receipt of the Deposit.

Best Regards,

Chris Curry

# Covenant Services, Inc

18 Village Plaza, PMB 230  
Shelbyville, KY 40065  
(502)471-4801

## Proposal

Oct 29th, 2017

Robert Burch  
Spring Oaks  
7251 Grove Rd  
Brooksville, FL 34613

### **200KW CAT Diesel w/96 Hour tank 1600 Amp ATS**

Regarding the above subject, we are pleased to provide the following detailed proposal:

Installed turnkey including Permits and Inspections by Florida Fully Licensed Electrical Contractor. Traffic protection measures and fuel tank permit included. Fuel included.

One new Caterpillar Model D200 Diesel Fueled Electric Generator Set, UL2200 Listed, engine directly connected to a Single bearing synchronous generator, 60Hz, 3 Phase, 1800RPM, 200kW standby with fan, 208/120VAC, and Automatic Transfer Switch; included per the attached Bill of Material: TOTAL NET PRICE All included.....\$259,000

- Price includes UL142 Rated 96 Hour Run-Time Subbase Fuel Tank - Price includes High Velocity Hurricane Zone 200MPH Wind Rated Sound Attenuated Enclosure - Price includes platform with rails and stairs - Price includes 2-Year Warranty Coverage

DRAWINGS: 2 to 3 weeks after receipt of order DELIVERY: 15 to 17 weeks after approval of submittal and order is placed TERMS: Net due upon substantial completion with 1.5 percent per month added to the unpaid balance QUOTATION VALIDITY: 30 days

A CAT Power Systems Product Representative will be available for assistance during the installation of this equipment. The Product Representative will arrange start-up of the unit, and provide training and instruction to owner's personnel at the jobsite in its operation and maintenance. All service and parts for this unit will be provided from our Louisville location.

Thank you very much for allowing us an opportunity to quote on this project. Should you have any questions regarding our proposal, please don't hesitate to contact me.

We propose to provide materials, labor and equipment, complete according to the above specifications for the sum of:

<b>\$259,000</b>	<b>Two hundred fifty-nine thousand dollars</b>
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**Acceptance of Proposal:** The above prices, specifications, and conditions are found to be satisfactory and are hereby accepted. Covenant Services, Inc is authorized to do the work as specified. Payment will be made as outlined above.

Signature: \_\_\_\_\_

Print Name: \_\_\_\_\_

Date of Acceptance: \_\_\_\_\_

Respectfully submitted,  
Covenant Services, Inc  
Chris Curry  
(502)471-4801 Kwsave@yahoo.com  
Oct 29th, 2017

This proposal is valid for 30 days



## BILL OF MATERIAL

Caterpillar Model Diesel Fueled Electric Generator Set, UL2200 Listed, engine directly connected to a Single bearing synchronous generator, 60Hz, 3 Phase, 1800RPM, Standby with fan, and to include the following attachments and accessories:

### STANDARD EQUIPMENT

Air cleaner, single stage dry type  
Breather, crankcase  
Battery charging alternator  
Cooler, lube oil  
Fuel filter(s)  
Lube oil filter(s)  
Lubricating oil  
Fuel pressure gauge  
Exhaust, manifold dry type  
Fuel transfer pump, diesel models  
Fuel priming pump, diesel models  
Jacket water pump  
Flexible fuel lines  
Governor allowing a frequency regulation of +/-0.25% no load to full load steady state  
Voltage Regulation +/- 0.5% no load to full load steady state  
Radiator, engine mounted with duct adapter and of sufficient capacity to maintain a safe operating temperature including anti-freeze  
Vibration isolators - mounted between the formed steel base and the engine generator set  
Formed steel base with coolant and oil drain valve connections.

### EXHAUST SILENCER

Silencer for critical applications, mounted inside generator Weather Protective Sound Attenuated Enclosure  
Flexible exhaust fitting mounted

### ELECTRIC STARTING SYSTEM

24VDC  
Battery consisting of Heavy-duty 12 volt Batteries with acid, rack and cables  
Battery Charger, 120/240volt AC input, 24VDC output, dual rate, rated at 10 or 20 amperes and includes a low voltage alarm relay, complies with NFPA110 mounted and wired.  
Battery Heating Pads thermostatically controlled, AC single phase

### JACKET WATER HEATER

Thermostatically controlled, AC single phase, with isolation valves, mounted and wired to common terminal strip with battery charger

### LUBE OIL HEATER

No Lube Oil Heater

### GENERATOR FEATURES

Generator anti-condensing heater  
Generator Excitation - Permanent Magnet Type with 300% short circuit  
Circuit breaker(s) are UL Listed 100% rated generator mounted in NEMA 1 enclosure with Shunt Trip and Auxiliary Contacts

### CONTROL PANEL, CATERPILLAR EMCP 4.2 GENERATOR MOUNTED in NEMA 1 ENCLOSURE

Digital graphical display for power metering, protective relaying, engine and generator controls, diagnostics, and operating information. All information available via the control panel keypads. A 33 x 132 pixel, 3.8 inch graphical display denotes text alarm, event descriptions, set points, engine, and generator

monitoring.

Real time clock allows for date and time stamping of diagnostics and events, as well as service maintenance requirements based on engine operating hours or calendar days. Up to 40 diagnostic events are stored in the non-volatile memory. Three levels of operator security.

#### **GENERATOR MONITORING**

- Voltage (L-L, L-N)
- Current (Phase)
- Average Volt, Amp, Frequency
- KW, KVAR, KVA (Average, Phase)
- KW-HR, KVAR-HR (Total)
- Excitation voltage and current (with CDVR)
- Generator stator and bearing temp (with optional module)

#### **GENERATOR PROTECTION**

- Over/under voltage
- Over/under frequency
- Generator phase sequence
- Reverse power (real and reactive)
- Overcurrent (timed and inverse)

#### **ENGINE MONITORING**

- Coolant temperature
- Oil temperature
- Oil pressure
- Engine speed (RPM)
- Battery voltage
- Run hours
- Crank attempt and successful start counter
- Enhanced engine monitoring (with electronic engines)

#### **ENGINE PROTECTION**

- Control switch not in auto (alarm)
- High coolant temp (alarm and shutdown)
- Low coolant temp (alarm)
- High engine oil temp (alarm and shutdown)
- Low, high, and weak battery voltage
- Overspeed
- Overcrank

#### **CONTROL**

- Run/Auto/Stop control
- Speed and voltage adjust
- Local and remote emergency stop
- Remote start/stop
- Cooldown timer
- Cycle crank

#### **INPUTS AND OUTPUTS**

- Two dedicated digital inputs
- Six programmable digital inputs
- Six programmable form A dry contacts
- Two programmable form C dry contacts
- Two digital outputs

#### **COMMUNICATIONS**

- Primary and accessory CAN data links
- RS-485 annunciator data link
- RS-485 SCADA (Modbus RTU)

#### **PRE-ALARM PANEL**

Control Panel local mounted complies with NFPA110

#### **REMOTE ANNUNCIATOR PANEL (DELIVERED WITH GENERATOR)**

Caterpillar Remote Annunciator  
Annunciation 16 points with two LED's each  
Additional pair of LED's provides status of communication network  
Alarm horn with lamp test and alarm acknowledge pushbuttons  
Complies with NFPA 110  
Shipped Loose for Contractor Mounting & Wiring

REMOTE E-STOP (DELIVERED WITH GENERATOR)

HIGH VELOCITY HURRICANE ZONE SOUND ATTENUATED WEATHER PROTECTIVE ENCLOSURE & SUB-BASE FUEL TANK

Weatherproof enclosure is constructed of aluminum material mounted on 96 hour runtime at 90% low fuel level, subbase fuel tank with aluminum frame, aluminum angle base, fixed intake louver, gravity radiator discharge louvers, hinged access doors, stainless steel t-handle latches and continuous hinge.

**Fuel Provided by Others**

**JOBSITE START-UP** - Cat Power Systems will supply a factory trained technician, to perform an installation check, start-up, and building load test of equipment supplied in this proposal, after installation is completed

**JOBSITE LOAD BANK TESTING** - 4-hour site load bank test. Load bank, cabling, and technician provided by local Certified Caterpillar Dealership

**PERSONEL TRAINING** - provided

**O & M MANUALS** - 1 set

**SUBMITTAL DRAWINGS** - Electronic and 4 hard copy sets or as needed

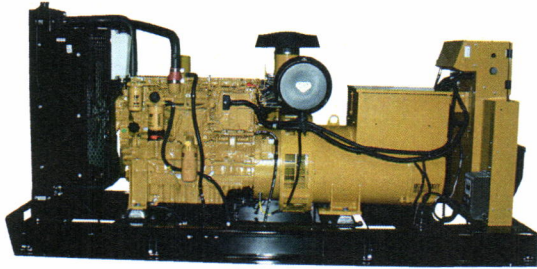
**WARRANTY**- Standard 2-year warranty provided for Caterpillar supplied equipment

**NOTE:** Any NETA and/or infrared site testing and/or electrical coordination study specified is NOT included in this proposal, and is to be provided by others



## C7.1 Generator Set

### Electric Power



Caterpillar is leading the power generation marketplace with Power Solutions engineered to deliver unmatched flexibility, expandability, reliability, and cost-effectiveness.

Image shown may not reflect actual configuration

## Specifications

Generator Set Specifications	
Rating	200 ekW (250 kVA)
Voltage	480 Volts
Frequency	60 Hz
Speed	1800 rpm

Generator Set Configurations	
Emissions/Fuel Strategy	U.S. EPA Certified for Stationary Emergency Use Only (Tier 3 Nonroad Equivalent Emission Standards)

Engine Specifications		
Engine Model	C7.1 In-line 6, 4-cycle diesel	
Bore	105 mm	4.13 in
Displacement	7.01 L	427.8 in <sup>3</sup>
Stroke	135 mm	5.31 in
Compression Ratio	16.5:1	
Aspiration	Turbocharged Air-to-Air-Aftercooled	
Governor Type	Electronic	
Fuel System	Common Rail	

Package Dimensions*		
Length	3039 mm	119.7 in
Width	1110 mm	43.7 in
Height	1476 mm	58.1 in
Weight†	1839 kg	4054 lb

\*Note: For reference only – do not use for installation design. Please contact your local dealer for exact weight and dimensions.

†Weight includes: Oversize generator, skid base, circuit breaker, oil, and coolant.

## Benefits & Features

### Cat® Diesel Engine

- Reliable, rugged, durable design
- Four-stroke cycle diesel engine combines consistent performance and excellent fuel economy with minimum weight
- Electronic engine control

### Generator

- Matched to the performance and output characteristics of Cat engines
- Industry-leading mechanical and electrical design
- Industry-leading motor starting capabilities
- High efficiency

### Cat EMCP Control Panel

The EMCP controller features the reliability and durability you have come to expect from your Cat equipment. EMCP 4 is a scalable control platform designed to ensure reliable generator set operation, providing extensive information about power output and engine operation. EMCP 4 systems can be further customized to meet your needs through programming and expansion modules.

### Seismic Certification

- Seismic certification available
- Anchoring details are site specific, and are dependent on many factors such as generator set size, weight, and concrete strength
- IBC certification requires that the anchoring system used is reviewed and approved by a professional engineer
- Seismic certification per applicable building codes: IBC 2006, IBC 2009, IBC 2012, IBC 2015

### Design Criteria

- The generator set accepts 100% rated load in one step per NFPA 110 and meets ISO 8528-5 transient response
- Cooling system designed to operate in 50°C/122°F ambient temperatures with an air flow restriction of 0.5 in. water

### UL 2200/CSA – Optional

- UL 2200 Listed
- CSA Certified

Certain restrictions may apply. Consult with your Cat dealer.

### Single-Source Supplier

Fully prototype tested with certified torsional vibration analysis.

### Worldwide Product Support

Cat dealers provide extensive post-sale support including maintenance and repair agreements. Cat dealers have over 1,800 dealer branch stores operating in 200 countries. The Caterpillar S•O•S<sup>SM</sup> program cost-effectively detects internal engine component condition, even the presence of unwanted fluids and combustion by-products.



## **Standard Equipment**

### **Air Inlet**

- Dry replaceable paper element type with restriction indicator

### **Cooling**

- Radiator and cooling fan complete with protective guards
- Standard ambient temperatures up to 50°C (122°F)

### **Exhaust**

- Exhaust flange outlet

### **Fuel**

- Primary and secondary fuel filters
- Fuel priming pump
- Flexible fuel lines

### **Generator**

- Matched to the performance and output characteristics of Cat engines
- Load adjustment module provides engine relief upon load impact and improves load acceptance and recovery time
- IP23 protection
- Integrated Voltage Regulation

### **Governor**

- Electronic governor – ADEM™ A4

### **Control Panels**

- EMCP 4.2 Series generator set controller

### **Mounting**

- Rubber vibration isolators

### **Starting/Charging**

- 12 volt starting motor
- Batteries with rack and cables

### **General**

- Paint – Caterpillar Yellow except rails and radiators gloss black

## Optional Equipment

### Exhaust

- Industrial, residential, critical mufflers

### Generator

- Excitation:  Permanent Magnet Excited (PM)  Internally Excited (IE)
- Anti-condensation heater
- Oversize and premium generators

### Starting/Charging

- Battery charger – UL 10 amp
- Battery disconnect switch
- Jacket water heater

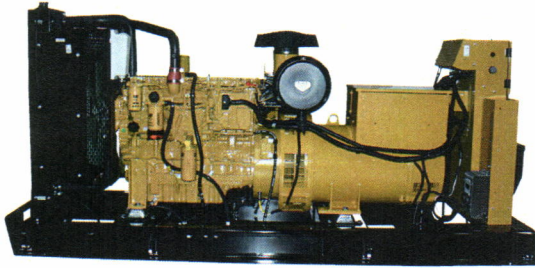
### General

- UL 2200
- CSA Certification
- Enclosures: sound attenuated, weather protective
- Sub-base dual wall UL Listed fuel tanks
- Automatic transfer switches (ATS)

C7.1  
200 ekW/ 250 kVA/ 60 Hz/ 1800 rpm/ 480V/ 0.8 Power Factor

Rating Type: STANDBY

Emissions: U.S. EPA Certified for Stationary Emergency Use Only  
(Tier 3 Nonroad Equivalent Emission Standards)



**D200-2**  
**200 ekW/ 250 kVA**  
**60 Hz/ 1800 rpm/ 480V**

Image shown may not reflect actual configuration

Package Performance	
Generator Set Power Rating with Fan @ 0.8 Power Factor	200 ekW
Generator Set Power Rating	250 kVA

Fuel Consumption		
100% Load With Fan	56.4 L/hr	14.9 g/hr
75% Load With Fan	45.8 L/hr	12.1 g/hr
50% Load With Fan	32.6 L/hr	8.6 g/hr

Cooling System <sup>1</sup>		
Engine Coolant Capacity	9.5 L	2.5 gal
Radiator Coolant Capacity	11.5 L	3.0 gal
Engine Coolant Capacity with Radiator/Exp Tank	21.0 L	5.5 gal
Air Flow Restriction (System)	0.12 kPa	0.48 in water

Inlet Air		
Combustion Air Inlet Flow Rate	15.8 m <sup>3</sup> /min	558 cfm

Exhaust System		
Exhaust Stack Gas Temperature	533°C	991°F
Exhaust Gas Flow Rate	38.3 m <sup>3</sup> /min	1353 cfm
Exhaust System Backpressure (maximum allowable)	15.0 kPa	60.2 in water
Exhaust Flange Size (internal diameter)	89.0 mm	3.5 in



**ELECTRIC POWER – Technical Spec Sheet**  
STANDARD



C7.1

200 ekW/ 250 kVA/ 60 Hz/ 1800 rpm/ 480V/ 0.8 Power Factor

Rating Type: STANDBY

Emissions: U.S. EPA Certified for Stationary Emergency Use Only  
(Tier 3 Nonroad Equivalent Emission Standards)

Heat Rejection		
Heat Rejection to Coolant (total)	91.8 kW	5221 Btu/min
Heat Rejection to Exhaust (total)	183 kW	10407 Btu/min
Heat Rejection to Aftercooler	45.0 kW	2559 Btu/min
Heat Rejection to Atmosphere from Engine	35.3 kW	2019 Btu/min
Heat Rejection to Atmosphere from Generator	15.7 kW	892.8 Btu/min

Alternator <sup>2</sup>		
Motor Starting Capability @ 30% Voltage Dip	454 skVA	
Frame	LC5014F	
Temperature Rise	130°C	234°F
Excitation	Self Excited	

Lube System		
Sump Refill with Filter	16.5 L	4.4 gal

Emissions (Nominal) <sup>3</sup>	
NO <sub>x</sub> + HC	3.73 g/kW-hr
CO	1.31 g/kW-hr
PM	0.18 g/kW-hr

<sup>1</sup> For ambient and altitude capabilities consult your Cat dealer. Air flow restriction (system) is added to the existing restriction from the factory.

<sup>2</sup> Generator temperature rise is based on a 40°C (104°F) ambient per NEMA MG1-32.

<sup>3</sup> The nominal emissions data shown is subject to instrumentation, measurement, facility, and engine-to-engine variations. Emissions data is based on 100% Prime load. This information should not be used for permitting purposes and is subject to change without notice. Contact your Cat dealer for further details.



**C7.1**  
**200 ekW/ 250 kVA/ 60 Hz/ 1800 rpm/ 480V/ 0.8 Power Factor**

**Rating Type: STANDBY**

**Emissions: U.S. EPA Certified for Stationary Emergency Use Only**  
**(Tier 3 Nonroad Equivalent Emission Standards)**

## **DEFINITIONS AND CONDITIONS**

### **Applicable Codes and Standards:**

AS1359, CSA C22.2 No 100-04, UL142, UL489, UL601, UL869, UL2200, NFPA 37, NFPA 70, NFPA 99, NFPA 110, IBC, IEC60034-1, ISO3046, ISO8528, NEMA MG 1-22, NEMA MG 1-33, 72/23/EEC, 98/37/EC, 2004/108/EC.

**STANDBY:** Output available with varying load for the duration of the interruption of the normal source power. Average power output is 70% of the standby power rating. Typical operation is 200 hours per year, with maximum expected usage of 500 hours per year.

**Ratings** are based on SAE J1349 standard conditions. These ratings also apply at ISO3046 standard conditions.

**Fuel Rates** are based on fuel oil to specification EPA 2D 89.330-96 with a density of 0.845 – 0.850 kg/L (7.052 – 7.094 lbs/U.S. gal.) @ 15°C (59°F) and fuel inlet temperature 40°C (104°F).

Additional ratings may be available for specific customer requirements, contact your Cat representative for details.

Performance No.: P4364A-00  
Feature Code: NAC144P  
Generator Arrangement: 3932561  
Date: 09/13/2016  
Source Country: U.S.  
LEHE0511-03

[www.Cat-ElectricPower.com](http://www.Cat-ElectricPower.com)

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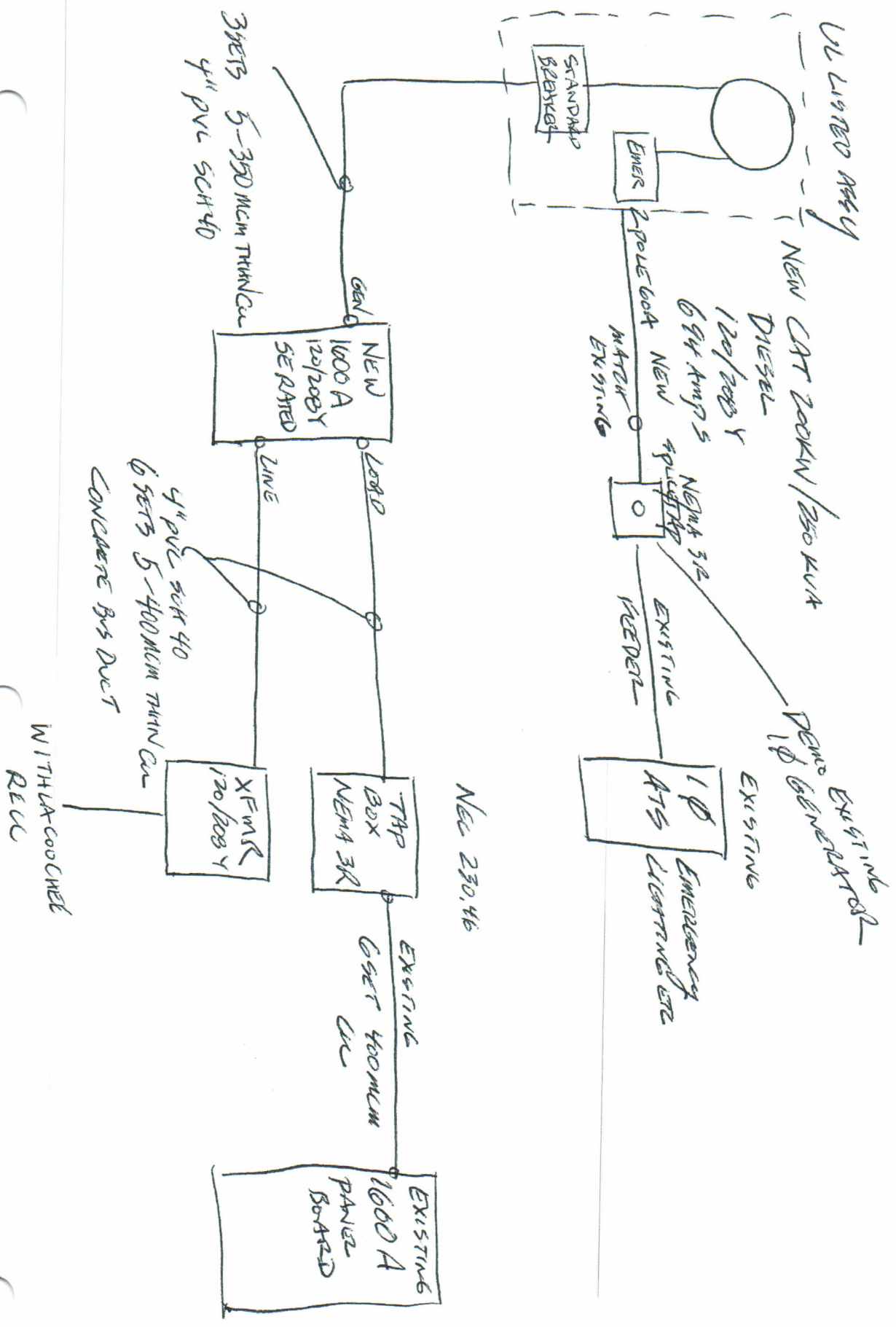
Materials and specifications are subject to change without notice.  
The International System of Units (SI) is used in this publication.

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ONE LINE ELECTRICAL

#14 SPRING OAKS



No	Facility Name	Address	City	Model	kW Rating	Comments	Fuel Consumption @ 100% Load	Complete Package Weight (lbs)	Complete Package Dimensions	Genset Weight (lbs)	Fuel Tank Weight (lbs)	Fuel Tank Dimensions	Fuel Tank Capacity 126 Hours @ 100% Load	Enclosure Weight (lbs)	Enclosure Dimensions
1A	Spring Haven Retirement	1225 NW Havenside Blvd	Winter Haven	C15	450		34.8 GPH	28,791	327" x 80"W x 155"H	5,088	10,362	218" x 80"W x 48"H	2,700 Gallons, 2,496 Usable	4,405	2427L x 807W x 108"H
1B	Spring Haven Retirement	1225 NW Havenside Blvd	Winter Haven	C15	300		24.9 GPH	24,603	297" x 80"W x 167"H	5,088	11,068	218" x 80"W x 54"H	4,800 Gallons, 4,381 Usable	5,151	2947L x 807W x 108"H
1C	Spring Haven Retirement	1225 NW Havenside Blvd	Winter Haven	D200-2	600		14.9 GPH	17,862	263" x 80"W x 130"H	4,910	9,117	390" x 80"W x 57"H	3,500 Gallons, 3,180 Usable	5,014	2927L x 807W x 108"H
2	Lake Morton Plaza	400 S Florida Avenue	Lakeland	C18	600		40.411	40,411	390" x 80"W x 164"H	9,493	25,463	390" x 80"W x 58"H	5,900 Gallons, 5,197 Usable	3,335	2637L x 647W x 84"H
3	Forest Oaks of Spring Hill	8055 Forest Oaks Blvd	Spring Hill	C9	250		19.4 GPH	17,862	2427L x 807W x 155"H	5,088	10,362	218" x 80"W x 48"H	2,700 Gallons, 2,496 Usable	4,405	2427L x 807W x 108"H
4	Spring Oaks	7251 Grove Road	Brooksville	D200-2	200	NEED SECOND REMOTE ON LARGER AND CONTROLS FOR EXISTING KOHLER GENERATOR	14.9 GPH	17,862	2637L x 647W x 130"H	4,910	9,117	227" x 647W x 46"H	2,100 Gallons, 1,917 Usable	3,335	2637L x 647W x 84"H
5	The Grande	725 DeSoto Avenue	Brooksville	C9	250		19.4 GPH	19,855	2427L x 807W x 155"H	5,088	10,362	218" x 80"W x 48"H	2,700 Gallons, 2,496 Usable	4,405	2427L x 807W x 108"H
6A	Bayside Terrace East Service	9381 US 19	Pinellas Park	C9	300		22.7 GPH	20,618	2427L x 807W x 167"H	5,086	11,068	218" x 80"W x 54"H	3,100 Gallons, 2,836 Usable	4,464	2427L x 807W x 108"H
7A	Bradenham Oaks	1015 7th Avenue East	Bradenton	D175-4	175		11.3 GPH	13,596	2287L x 647W x 120"H	3,102	7,486	270" x 88"W x 50"H	4,500 Gallons, 4,359 Usable	3,009	2387L x 647W x 84"H
7B	Bradenham Oaks	1015 7th Avenue East	Bradenton	D175-4	175		11.3 GPH	13,596	2287L x 647W x 120"H	3,102	7,486	270" x 88"W x 50"H	4,500 Gallons, 4,359 Usable	3,009	2387L x 647W x 84"H
8	Woodland Retirement	3409 26th Street W	Bradenton	C9	300		22.7 GPH	20,618	2427L x 807W x 167"H	5,086	11,068	218" x 80"W x 54"H	3,100 Gallons, 2,836 Usable	4,464	2427L x 807W x 108"H
9	Woodland Retirement	1121 Blvd East	Bradenton	C9	300		22.7 GPH	20,618	2427L x 807W x 167"H	5,086	11,068	218" x 80"W x 54"H	3,100 Gallons, 2,836 Usable	4,464	2427L x 807W x 108"H
10	Sunset Lake Village	18400 Cochrin Road	Venice	C9	300		22.7 GPH	20,618	2427L x 807W x 167"H	5,086	11,068	218" x 80"W x 54"H	3,100 Gallons, 2,836 Usable	4,464	2427L x 807W x 108"H
11	Village Place Retirement	2500 Aaron Street	Fort Charlotte	C15	450		24.9 GPH	24,603	297" x 80"W x 167"H	7,319	12,279	325" x 80"W x 57"H	4,500 Gallons, 4,359 Usable	5,151	2947L x 807W x 108"H
12	Royal Palm	36 Barkley Circle	Fort Myers	C9	250		14.9 GPH	17,862	2427L x 807W x 155"H	5,088	10,362	218" x 80"W x 48"H	2,700 Gallons, 2,496 Usable	4,405	2427L x 807W x 108"H
13A	Barkley Place Senior Living	36 Barkley Circle	Fort Myers	C9	250		14.9 GPH	17,862	2427L x 807W x 155"H	5,088	10,362	218" x 80"W x 48"H	2,700 Gallons, 2,496 Usable	4,405	2427L x 807W x 108"H
13B	Barkley Place Senior Living	36 Barkley Circle	Fort Myers	C13	350		24.9 GPH	24,603	297" x 80"W x 167"H	7,319	12,279	325" x 80"W x 57"H	4,500 Gallons, 4,359 Usable	5,151	2947L x 807W x 108"H
14	Balmoral Assisted Living	93 Balmoral Drive	Lake Placid	N/A	N/A			5,704	297" x 807W x 167"H	11,068	12,279	248" x 807W x 57"H	3,500 Gallons, 3,180 Usable	5,014	2927L x 807W x 108"H
15	Ides of Vero Beach	1700 Waterford	Vero Beach	C27	750		53.6 GPH	50,283	3747L x 967W x 169"H	13,820	29,761	4067L x 967W x 57"H	7,500 Gallons, 6,766 Usable	7,862	3747L x 967W x 114"H
16A	Ormond in the Pines	101 Clyde Morris Blvd	Ormond Beach	D200-2	300		22.7 GPH	20,618	2427L x 807W x 167"H	5,086	11,068	218" x 80"W x 54"H	3,100 Gallons, 2,836 Usable	4,464	2427L x 807W x 108"H
16B	Ormond in the Pines	101 Clyde Morris Blvd	Ormond Beach	D175-8	125		14.9 GPH	17,862	2287L x 647W x 118"H	4,910	9,117	232" x 647W x 34"H	1,400 Gallons, 1,317 Usable	3,335	2637L x 647W x 84"H
16C	Ormond in the Pines	101 Clyde Morris Blvd	Ormond Beach	D175-8	125		14.9 GPH	17,862	2287L x 647W x 118"H	4,910	9,117	232" x 647W x 34"H	1,400 Gallons, 1,317 Usable	3,335	2637L x 647W x 84"H
17	Renaissance Retirement Center	300 W Airport Blvd	Sanford	D200-2	200		14.9 GPH	17,862	2637L x 647W x 130"H	4,910	9,117	227" x 647W x 46"H	2,100 Gallons, 1,917 Usable	3,335	2637L x 647W x 84"H



**Site**

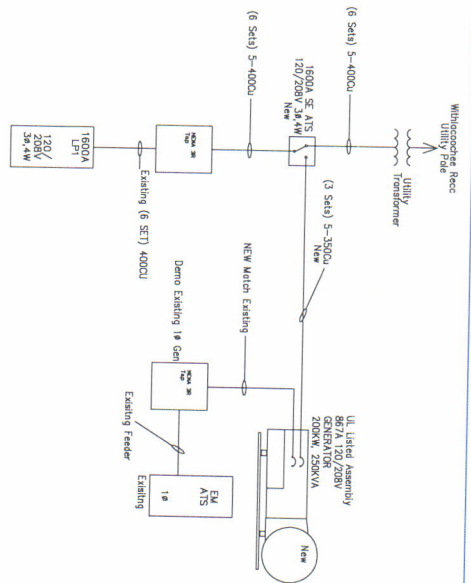
**Load Calc Sheet**

Site # 4  
 Name Spring Oaks  
 ONLY ONE SERVICE  
 Withlacoochee River Electric Cooperative  
 1665211

102 KW Highest recorded peak demand for one year  
 NEC 220.87 permits Load Calculation to be  
 125% of highest one year demand, therefore  
 Load=102KW \* 125= 127.5KW

Fire Pumps NONE Genset=200KW/250 KVA

**Single Line**



**ELECTRICAL NOTES:**

- \* ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH THE NEC, ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES AND REGULATIONS.
- \* ELECTRICAL SERVICE AND ALL PANELS ARE EXISTING, IDENTIFY LOCATION AND CAPACITY IN FIELD.

THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AUTHORITIES.

PROPOSED FACILITY FOR:  
**Spring Oaks**  
 7251 Grove Rd  
 Brooksville, FL 34613

**Covenant Services Inc**  
 18 Village Plaza  
 Shelbyville KY 40086 (502)471-4801

DATE	BY	REVISION
10/18/17	IST	ISSUE OF DRAWING

DATE	BY	REVISION

**Load Calculation**

## Load Calc Sheet

Site # 4  
Name Spring Oaks  
ONLY ONE SERVICE  
Withlacoochee River Electric Cooperative  
1665211  
102 KW Highest recorded peak demand for one year  
NEC 220.87 permits Load Calculation to be  
125% of highest one year demand, therefore  
Load=102KW x 1.25= 127.5KW

Fire Pumps NONE Genset=200KW/250 KVA

DATA below for RFQ do not transfer to CAD

Separate EMERGENCY LOAD BREAKER	yes	200 KW	Diesel	120/208Y
MAIN BREAKER	Standard	60A 2 pole	Note: Ground Fault not required for 120V to Neutral	
200 MPH Hurricane Enclosure				
96 Hour Tank- Florida				
ATS	SE Rated	1600A	120/208Y	NEMA 3R or better