



REQUIRED EMERGENCY GENERATOR DOCUMENTATION

ELECTRICAL COMPONENT

ZONING REQUIREMENTS:

Please check with Development Services staff for property line setback requirements.

GENERATOR:

Provide the generator model number with Kw rating and indicate type of fuel source (natural gas, propane, diesel, etc.).

Indicate if the generator will be portable or fixed. Portable generators require a listed cord and plug connection to the building. If the generator will be connected to the load through a cord-and-plug, the receptacle shall be sized for the generator's overcurrent protection.

LOAD CALCULATION:

Provide a load calculation and size of the generator based on the 2014 National Electrical Code (NEC). Feeder and service loads connected to the generator shall be calculated in conformance with the generator manufacturer's specifications, Article 220 (standard or optional calculations), and Article 702.4 of the NEC.

When using automatic transfer switches and the generator's output capacity is less than the electrical panel's main breaker's rated ampacity, a **load management system shall be required per Article 702.4(B)(2) of the NEC.**

RISER DIAGRAM:

Provide an electrical riser diagram showing meter, electrical panel(s), transfer switch(es), main disconnect(s) and generator. The riser diagram shall include the following information:

- Conductor sizes, conductor material (copper or aluminum), and insulation type (THHN, THWN, direct burial cable, etc.);
- Conduit sizes and material (i.e., PVC, EMT, etc.) - PVC conduit installed above ground shall be Schedule 80; and
- Overcurrent device ratings.

TRANSFER SWITCHES:

Provide the transfer switch model number. Transfer switches are required for all generators per NEC 702.5, and shall be rated for the connected load. If a transfer switch is used as service equipment, then the manufacturer's specifications shall indicate this information.

Automatic transfer switches shall be sized based upon Article 702.4(B)(2) NEC.

Manual transfer switches shall be sized based upon Article 702.4(B)(1) NEC.

SITE PLAN:

The site plan shall note the location of all equipment (electric meter, main service disconnection means, all panels, generator, transfer switch(es), air conditioning condensing units, etc.).

Required signage:

The site plan shall indicate that a sign or placard shall be placed at the service-entrance equipment showing location and type of generator per 2014 NEC Articles 230.2(E), 700.7, 701.7, and 702.7. **This will be verified at the time of inspection.**

The site plan shall indicate that all equipment shall be installed per manufacturer's installation instructions and also that these instructions shall be provided to the inspector at the time of inspection.

NOTICE: The **electrical contractor** must submit a Homeowner Affidavit with their application to validate they are working for the homeowner and the proposed work has been approved by the homeowner.



REQUIRED EMERGENCY GENERATOR DOCUMENTATION

FUEL GAS COMPONENT

ZONING REQUIREMENTS:

Please check with Development Services staff for property line setback requirements.

GENERATOR:

Provide the generator model number with **BTU** rating and indicate type of fuel source (natural gas, propane, diesel, etc.).

RISER DIAGRAM: Pursuant to Fuel Gas, Chapter 4, Section 402 of the FBC, 6th Edition

Provide an electrical riser diagram showing meter, electrical panel(s), transfer switch(es), main disconnect(s) and generator. Please provide the following information for the riser diagram:

- Gas type
- Inlet pressure size
- Pressure drop value in inches water column
- Size and length of each pipe segment
- Type of pipe used to convey the fuel gas (pursuant to Fuel Gas Section 403, FBC)
- Location and size of gas regulator
- Overall length of the gas pipe from the meter to the last appliance
- All existing and new gas appliance(s) on the fuel gas system, along with each gas appliance's BTU rated supply demand
- The total supply demand for all appliances, including the emergency generator
- All shutoff valve locations and type of shutoff

The gas piping will need to be pressure tested pursuant to **Fuel Gas Section 406.4, FBC**.

SITE PLAN:

Site plan shall note the location of the gas meter, gas pipe underground, and generator location.

NOTICE:

Leon County is not responsible for providing gas meter installations or unlocking the gas meter.

NOTICE: The **gas contractor** must submit a Homeowner Affidavit with their application to validate they are working for the homeowner and the proposed work has been approved by the homeowner.

NOTICE: Gas generators require "LB" building permits only. No Exceptions.