EMERGENCY GENERATORS FOR RESIDENTIAL

Requirements for Permitting and Installation

Generators shall conform to local zoning requirements.
For specific Zoning requirements call (954) 786-4679.

☐ **Building Permit Application** is required if a new slab is to be formed and concrete placed.

A) Two (2) copies of a plan showing location of proposed generator and fuel tank.
B) A new slab shall be a minimum of 4" thick and comply with standards set forth by FBC 1820.5.
C) If the slab is permitted and existing a Building Permit will not be required provided it complies with the F.B.C.
D) If a pre fabricated slab is used, two (2) copies of a signed and sealed document is required showing compliance to FBC 1612.1.2 and ASCE 7-02, 140m.p.h. Exposure C.
E) Specifications of anchorage showing compliance to FBC 1612.1.2 and ASCE 7-02, 140m.p.h. Exposure C.
F) Any other supports for a permanent generator must be approved by the Building Official or designee.
G) Verification that the generator will be installed at current base flood elevation or above.
FBC 423.4.2; M-304.7; City Ordinance 152.24 & FEMA Reg.

☐ **Electrical Permit Application** is required for all permanent generators.

A) Two (2) copies of the Electrical Riser Diagram
   1) Riser diagram should show entire service, including transfer switch, all conduit and wire sizes, and over current protection of generator and equipment.
B) Two (2) copies of Generator Specifications (usually supplied by manufactured). Specifications must provide length, width and height of generator used.
C) All loads connected to the generator shall be identified.
D) Provide load calculations for the generator. NEC Article 220 shall be used to calculate existing loads. Where the generator is connected to the load through a cord-and plug (Exposed metal parts shall be no-current carrying), the receptacle shall be sized for the corresponding over current protection at the generator or other over current device in front of the receptacle.
E) Generator shall be sized for the load served. NEC Article 220 shall be to calculate the existing load.
F) Transfer Switch or other listed transfer device: Required for all generators shall be rated for the connected load.
G) Manual Transfer Switch: (Options)
   Sized for the intended load on the electrical service or Sized for optional standby panel(s) which maybe built into the panel(s) and transfer switch(s).
H) Automatic Transfer Switch: (Options)
   1) Size to transfer the entire load on the electrical service or
   2) Pre-select the loads to be served with an optional standby panel(s) and transfer switch(s) or
   3) Provide Automatic load shedding equipment to reduce total load imposed on generator.
I) Sign:
   1) A permanent sign shall be placed at the electrical service entrance equipment that indicates the location of on-site optional standby power sources.
   2) A permanent sign shall be placed at the transfer switch location indicating the sequence of operation to start the generator and the transfer the electrical loads.
      2002 National Electrical Code (NEC) Article 702
      2005 National Electrical Code (NEC) Article 702 *Effective 11/01/06*
J) Two (2) copies of plans showing locations of all operable windows and doors near generator exhaust. (Generator spacing from building shall meet manufacturer's specifications from all openings and operable doors, including those of neighbor's house).

☐ **Plumbing Permit Application** is required from a licensed contractor if natural or LP gas is to be used.

A) Two (2) copies of a plans view with Isometric Riser Diagram required. Show total length and type of piping and chart used to size gas system. Show generator BTU rating.

Note: *Portable generators will be reviewed on a case-by-case basis.*

This Checklist is based on:

Florida Building Code 2004
2002 National Electrical Code (NEC)
2005 National Electrical Code (NEC)
Broward County Board of Rules & Appeals Policy # 06-01