City of Wilton Manors
Community Development Services Department
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FIXED GENERATORS (COMMERCIAL OR SINGLE FAMILY)

This checklist is designed to expedite permit application processing by ensuring that all required documentation is submitted with your application. **Submit one <u>notarized</u> copy of the permit application and two (2) copies of the following required information:-**

Plans submitted must be drawn on standard 24"x36" blueprint paper and must be drawn to scale. The plans must contain the following:

A. SITE/SURVEY DRAWING
- _____ (1) Location of proposed generator (with dimensions)
- _____ (2) Location of all windows, doors and vents. (No openings within ten (10) feet of generator exhaust.)
- _____ (3) Location of fuel tanks and/or fuel lines

B. SLAB DRAWING
- _____ (1) Slab dimensions (L, W, D) and reinforcement details
- _____ (2) Anchor details for generator attachment to slab (see Broward County sheet re: wind load calculations and anchor details).
- _____ (3) Verification is required that the soil beneath will support the slab and generator for all loads per High Velocity Hurricane Zone (FBC 1818.2)
- _____ (4) Statement that installation meets Florida Building Code wind load of 140mph
- _____ (5) Generator spacing from building (provide manufacturer's specs)
- _____ (6) Acceptable foundation other than concrete slab (provide manufacturer's specs)
- _____ (7) Verify that the generator will be installed at current base flood elevation or above (FBC 3110.1)

C. ELECTRICAL RISER DRAWING
- _____ (1) Service
- _____ (2) Panel(s)
- _____ (3) Transfer switch
- _____ (4) Main Disconnect(s)
- _____ (5) Wire sizes
- _____ (6) Load calculations for determining size of transfer switch
- _____ (7) Overcurrent protection
- _____ (8) Grounding

D. GENERATOR
- _____ (1) Provide complete specifications and installation instructions
- _____ (2) KW rating, ampacity, voltage, phase
- _____ (3) Type of fuel
- _____ (4) Load calculations

E. TRANSFER SWITCH
- _____ (1) Required per N.E.C. 702.6, provide specifications.
- _____ (2) Automatic
- _____ (3) Manual

F. MANUAL TRANSFER SWITCH
- _____ (1) Sized for entire service load
- _____ (2) Sized for dedicated standby panels
- _____ (3) Identify all loads to be serviced

G. AUTOMATIC TRANSFER SWITCH
- _____ (1) Sized to transfer entire load
- _____ (2) Pre-selected loads to be served, with optional standby panel and transfer switch
- _____ (3) Provide automatic load shedding to reduce total load imposed on generator
- _____ (4) Determine existing load using N.E.C. 220.40 calculation

H. SOUND LIMITS

_____ (1) Decibel level not to exceed 60db at property line

I. SIGN

_____ (1) Per N.E.C. 702.8, sign placed at service-entrance equipment that indicates location of on-site standby power source

_____ (2) A permanent sign shall be placed at the transfer switch location indicating the sequence of operation to start the generator and transfer the electrical loads

J. FUEL

_____ (1) If liquefied petroleum (LP) gas is to be used, a plan indicating isometric riser diagram is required; also show piping material, length of piping, BTU demand and shut-off valve location

_____ (2) If a diesel fuel generator is proposed, the fuel piping, piping size, piping material, tank specifications, for inside of a building, and make-up air and exhaust termination (FMC 915.1) must be shown

GENERAL INFORMATION:

- Design plans are to comply with standards in the Florida Building Code, Florida Mechanical Code (FMC 915.1), National Fire Protection Association (NFPA 37), 2008 National Electric Code (N.E.C. Articles 220 & 702), and the National Gas Fuel Code as found in the NFPA.
- The installation of fixed generator requires permits.
- Under the owner/builder exemption, the homeowner of a single-family home or duplex may apply for the permit to install the slab.
- A licensed electrical contractor is required to obtain the permit for the electrical installation (disconnects, transfer switches, etc.).
- A licensed plumbing contractor or gas contractor is required to obtain a permit for the installation of LP gas.
- A mechanical permit will be required for installation of a diesel fuel tank by CMC, CFC or PCC-type contractor.

INSPECTIONS:

Inspections will vary depending on whether gas or diesel fueled.
Inspection list will be provided when permit is issued.

All inspection requests must be called in by **2:45pm** for inspection on the next Business Day.

_____ Signature of Applicant

_____ Date

_____ Printed Name of Applicant