



**Enforcement Provisions for Optional Standby Systems  
NEC Article 702 as applied to  
Residential Fixed Generator Systems:**

- 1. All transfer switches shall be rated equal to or greater than the Service Disconnecting Means rating when they are carrying the entire service load. When connected to an emergency panel they shall be rated equal to the emergency panel.**
- 2. If an automatic transfer switch is utilized without the use of an emergency panel with selected loads, the generator will need to be full sized to carry the calculated load in according with NEC Article 220.**  
**\* See note 1**
- 3. If a Manual Transfer Switch is used then selected loads may be chosen and identified for use when the generator is in operation, without the use of an emergency panel.**
- 4. Transfer switches and proper receptacles will be permitted and inspected for portable generators with a listed cord set.**
- 5. The Building Inspection Department will not Permit or inspect portable generators that are not designed for cord connection to a proper receptacle outlet and transfer switch.**
- 6. All load calculations for generator sizing shall be obtained by using the requirements of NEC Article 220.**

---

\* Item 2 is required in the event there is no one home to shed the load from the generator when power failure occurs and the generator was not full sized to carry the entire house load.

**Permitting procedures for Optional Standby Systems  
As applied to Residential Fixed Generators.**

**1. Permits required:**

- A) Generator Permit (This is to set the generator)**
- B) Electrical Permit**
- C) Natural Gas or LP Permit (Depending on the fuel source)**

**2. Documents required:**

- A) Site plan showing the location of the generator.**
- B) Manufacture's Specifications on the Generator.**
- C) Slab and/or foundation details for the generator pad.**
- D) Anchoring details; Generator to the slab.**
- E) See page 2 for the electrical requirements.**

**3. Who Can Apply for Permits?**

**A) Generator Permits:**

- i. Licensed Contractors, Homeowners.**

**B) Electrical Permits:**

- i. Licensed Electrical Contractors**

**C) Natural Gas or LP Gas Permits:**

- i. Licensed Mechanical, HARV, Plumbing and LP Contractors**

**GENERATOR SIZING  
BASED ON  
BRANCH CIRCUITS THAT WILL  
AUTOMATICALLY CYCLE ON  
WHEN THE OPTIONAL STANDBY SYSTEM  
IS ENGAGED, WITHOUT THE USE OF AN  
EMERGENCY PANEL**

Licensed electrical contractors will be permitted to size the optional standby generator based on the branch circuits most likely to automatically cycle on when using an automatic transfer switch without an emergency panel.

This calculation will be unique to each home and must be made part of your submittal with the generator permit. Branch circuits that may be taken into account include but are not limited to the following:

Include Lighting that may be left on  
A/C  
Heat Strips  
Water Heaters  
Refrigerators  
Freezers  
Pool Pump Motors

**Full Load Amps Shall Be Used!**

**All circuits not in this calculation must be identified and marked to be turned off under emergency power.**