

Generator Information Handout

Florida Building Code, Fuel Gas (FBCFG)

Gas Pipe Bonding

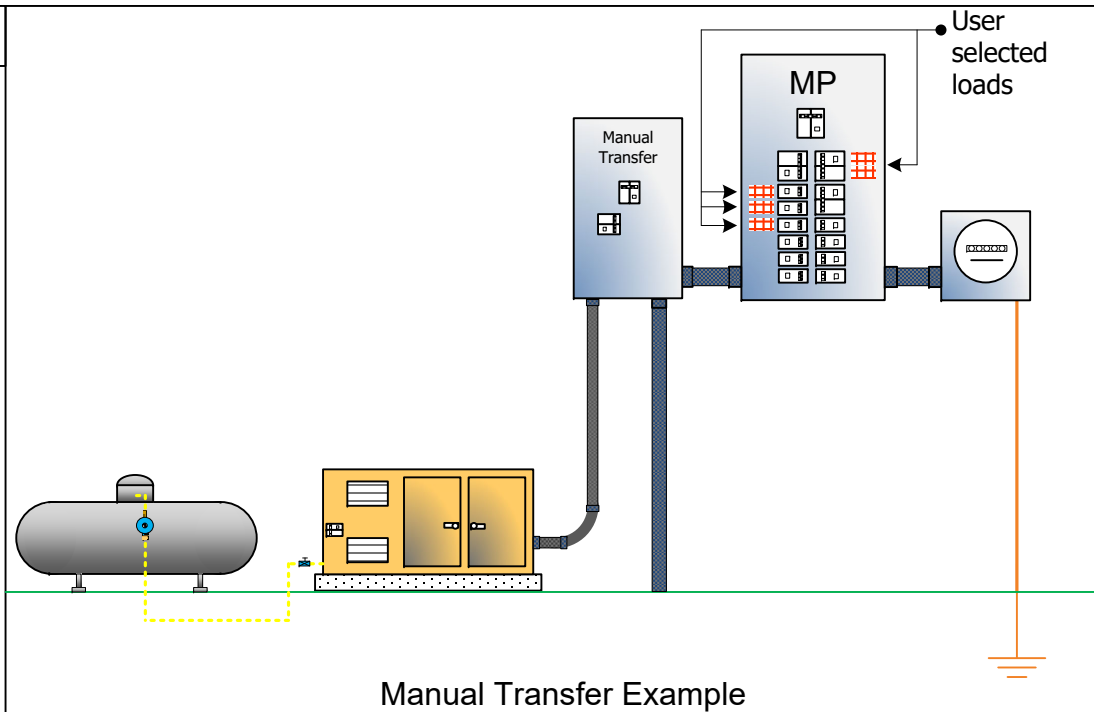
2410.1 Each above-ground portion of a gas piping system upstream from the equipment shutoff valve shall be electrically continuous and bonded to any grounding electrode...

G2411.1 Each above-ground portion of a *gas piping system* other than corrugated stainless steel tubing (CSST), that is likely to become energized shall be electrically continuous and bonded to an effective ground-fault current path. *Gas piping*, other than CSST, shall be considered to be bonded where it is connected to *appliances* that are connected to the equipment grounding conductor of the circuit supplying that *appliance*.

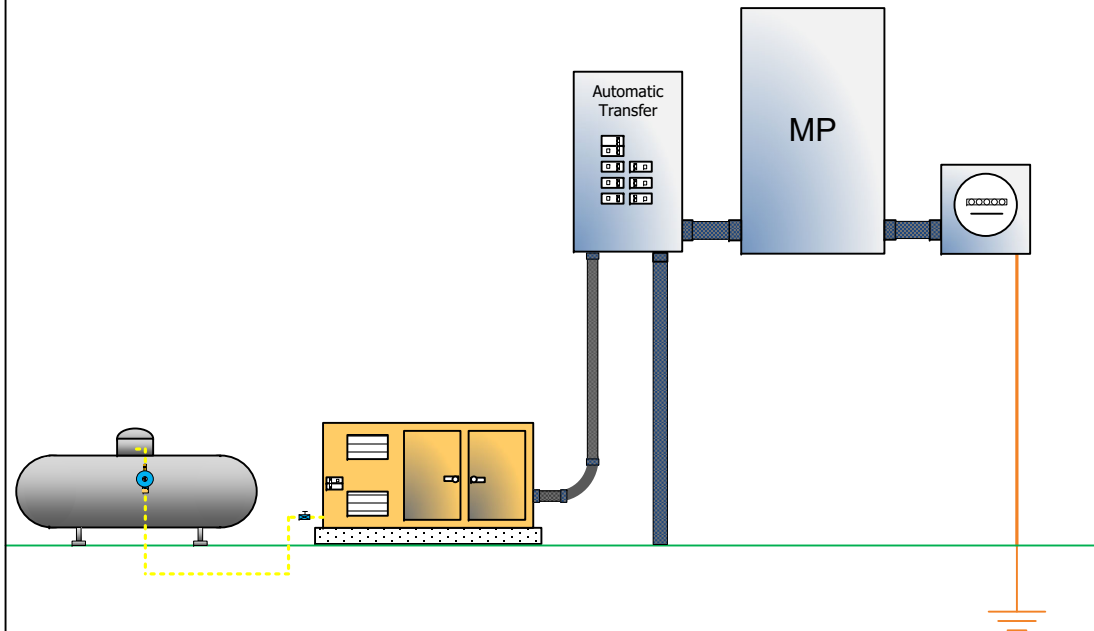
G2411.1.1 Corrugated stainless steel tubing (CSST) *gas piping systems* shall be bonded to the electrical service grounding electrode system at the point where the gas service enters the building. The *bonding jumper* shall be not smaller than 6 AWG copper wire or equivalent.

Gas Shut Off Valve

G2420.5 Each *appliance* shall be provided with a shutoff *valve*.



Manual Transfer Example



Automatic Transfer Example

Optional Standby Systems

National Electric Code (NEC) Article 702

NEC 702.4 All equipment shall be approved for the intended use.

NEC 702.5 (A) Optional standby system equipment shall be suitable for the maximum available short circuit current at its terminals.

Manual Transfer

NEC 702.5 (B) (1) Generator to be sized based on anticipated loads, user selection of loads is permitted.

Automatic Transfer

NEC 702.5 (B) (2) (a) The standby source shall be capable of supplying the full load that is transferred by the automatic transfer equipment or;

NEC 702.5 (B) (2) (b) The standby source shall have a capacity sufficient to supply the maximum load that will be connected to the load management system.

Separately Derived Systems

A generator shall be treated a separately derived system when the neutral from the service or other system is isolated after/during transfer.

NEC 250.30 (A) (7) Requires installation of grounding electrode system.

Non Separately Derived Systems

A generator shall be treated as a non-separately derived system when the neutral is not switched and require only equipment bonding and grounding.

NEC 250.30 (A) (2) Requires a main equipment bonding jumper installed in main service panel.