



## ELECTRICAL CHANGE-OUT GUIDELINES

**Any electrical service inspection** requires two (2) points of grounding as required by NEC 250.53.

**Masthead & service wire change** – a new grounding electrode and grounding conductor is required. (E3504.2.2, E3508 & E3510)

**Meter change** (same amperage) – a new masthead, service wire, grounding electrode and grounding conductor is required. (E3505, E3508 & E3510, E3504.2.2)

**Panel change** (same amperage) – new service feed from meter to panel is required, new ground rod and ground wire. (E3503, E3508 & E3510)

**New meter and new panel** – same as panel change.

**Any increase in service amperage load** requires a new meter, panel, masthead, supply feeds, grounding electrode and grounding conductor, and **ALL** of the following:

1. All receptacles in the bathrooms, kitchen, garage, carport, front and rear of the house are required to be GFCI circuits. (E3802)
2. The kitchen is required to have at least two (2) 20-amp GFCI circuits. (E3603.2)
3. All 220-volt appliance feeds are required to be changed. (E3602)
4. Smoke detectors in all bedrooms, halls, and changes in floor levels. These will be hard wired in series, with 9-volt battery backup. (R313, NFPA 72-99)
5. All bedroom receptacles (not including lighting fixtures) will be wired to Arc fault circuits. (E3802.12)
6. All non-grounded wall receptacle circuits in the house will be re-wired with new wiring to grounded circuits, including any new additional receptacles. (E3701.3)
7. All lighting circuits may be either changed to grounded circuits, or they can remain non-grounded. This is an option, and either is acceptable.

In all cases, an electrical inspection of the work is required before power is restored to the structure. For power disconnects and reconnects, please contact our office before you schedule the work, so that the inspectors can schedule this appointment.

For any additional information contact the Building Inspection Bureau at 843.553.8350 ex1407.