



# SafeCircuit Testing

## Services

All testing and work is performed by a Licensed Master Electrician or under the supervision of a Licensed Master Electrician.

### **META Testing Estimate & Visual Danger Report**

Our trained technicians do a visual inspection of the exterior and interior property and document immediate electrical/fire hazards along with the META testing estimate. Any immediate visual fire/electric hazards are listed on the estimate and given to the customer.

### **FULL META Test \*\***

The META tests for hidden fire or electrical hazards within any home or building. [We test circuit breakers, wiring and outlets with almost no disruption to regular operation.](#) Within 24 hours you will receive a full job report detailing all of the hazards our technicians have found. Should you choose to have the repairs done by a SafeCircuit certified electrician, you will receive a discount on any additional work performed.

### **Receptacle only META Testing \*\***

### **Circuit Breaker only META Testing \*\***

### **Additional services**

Full-Service Electrician

Electrical Consulting

Electrical Inspection & Approval Certificate

Circuit Breaker Panel Labeling

Arc Fault Testing

Yacht Club and Marina Testing

Pool Bonding and Grounding

Smoke & Carbon Monoxide Detector Testing and Maintenance

Exterior Structures

Exit and Emergency Lighting Performance Testing, Replacement and Upgrading

Fire and Water Damage Restoration

Fire Dept & Fire Marshall Exit and Emergency Lighting Certification Letters

Megger testing

Thermal Imaging

\*Special pricing is available for military, police, firemen and all essential workers.

*While you protect our community, it is SafeCircuit's privilege to protect you.*

\*\*Our prices are estimated based on the amount of time it will take to complete the test.

A single-family home is about 4 hours and larger structures range 6-8 hours.

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## SafeCircuit's META Test VS. Standard Electrical Testing

### META Testing

#### Circuit Panel Inspection

- Our master electrician will take your panel cover off and give it a detailed look through. Checking for things such as loose connections, damaged wiring, or signs of corrosion. What we are looking for are signs of potential dangers that lay within your panel.
- In addition we inspect the grounding system which includes the ground rod and watermeter.

#### Circuit Breaker Test

- We pull each breaker out individually and inspect all the connections similarly to the panel inspection.
- Monitor breaker vitals, which means checking that we are getting the right voltage readings throughout the breaker.
- Hooking our equipment up to each breaker individually to simulate its normal operation. The way we simulate this normal operation is by putting it "under a load", what this means is we draw a controlled amount of power to simulate it running an appliance in your home. This initial simulation is just to see if your breaker performs the way it should under its rated amount of power.
- At this point we then simulate an "overload test", this means we draw more than the breakers rated power to determine whether it trips (shuts off) the way it was designed to. If it fails that means the breaker is unsafe for your protection and must be replaced.
- Some panels have Ground Fault Protection breakers, if this is the case our equipment can simulate a shock hazard which would cause a breaker to trip (shut off) and again determine whether it is safe or not.
- In addition, some panels may have Arc Fault breakers, if this is the case, our equipment can simulate an arcing condition (fire hazard) which would cause a breaker to trip (shut off) and again determine whether it is safe or not.

#### Receptacle Testing

- We go around to each receptacle and inspect all vitals. We check for correct voltages and wiring in each outlet.
- Our equipment has the ability to compare the voltage readings from your panel to each outlet, what this tells us is if there are discrepancies between those two numbers there is a potential problem with the wiring of your home from the panel to that receptacle.
- Similarly, to the circuit breaker load test we put the receptacle we are testing under a load to see how it performs as if it was running an appliance. From this test we can get a very in depth look as to how the tested receptacle works normally and if it is safe for operation. If we



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determine that it is unsafe, we mark it and purposefully obstruct the outlet so it cannot be used.

- Our equipment will also allow us to see how your Ground Fault receptacles perform. Ground fault receptacle are typically found in your kitchen, bathrooms, outside and anywhere near water. They are the outlets with the two buttons in the middle of the plate. When we test the ground fault functionality, we are simulating a controlled electric shock hazard through our tester to determine if it trips off properly.
- Finally, we have various adapters to test the non-standard outlets, typically the ones used for a dryer or air conditioners and perform the tests listed above.

## Compared to Standard Electrical Testing

### **Circuit Panel Inspection**

- Most electricians will be able to perform a visual panel inspection. It is a valued service but typically not done under normal circumstances.

### **Circuit Breaker Test**

- An electrician will only be able to visually inspect your breakers and see if there is any corrosion or worn connections.

### **Receptacle Testing**

- Traditional methods used by electricians can determine if receptacle is wired correctly. After that that is the extent of their test.