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## Ground Fault Protection

### PURPOSE

The purpose of this policy is to specify procedures and guidelines to eliminate all injuries resulting from possible malfunctions, improper grounding and/or defective electrical tools.

### PROCEDURES

#### Ground Fault Protection

Hurt & Proffitt, Inc. will use ground fault circuit interrupters or assured equipment grounding conductor program to protect workers on the job site. These requirements are in addition to any other requirements for equipment grounding conductors.


#### Ground-fault circuit interrupters (GFCI)

All 120-volt, single phase, 15 and 20 ampere receptacle outlets on the job site, which are not part of the permanent wiring of the building or structure and which are in use by workers, shall have approved ground fault circuit interrupters for worker protection. Receptacles on a two wire, single phase portable or vehicle mounted generator rated not more than 5kw, where the circuit conductors of the generator frame and all other grounded surfaces, need not be protected with ground fault circuit interrupters.


#### Assured equipment grounding conductor program

The company has established the following assured equipment grounding conductor program on the job site covering all cord sets, receptacles which are not part of the building or structure, and equipment connected by cord and plug which are available for use or used by workers. This program will comply with the following minimum requirements:

- A written description of the program, including the specific procedures adopted by the employer, shall be available at the job site for inspection and copying by Assistant Secretary of Labor and any affected employee.
- Each cord set, attachment cap, plug and receptacle of cord sets, and any equipment connected by cord and plug, except cord sets and receptacles which are fixed and not exposed to damage, shall be visually inspected before each day's use for external defects, such as deformed or missing pins or insulation damage, and for indications of possible internal damage.


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- Equipment found damaged or defective shall not be used until repaired. Damaged or defective items shall be tagged “DO NOT USE” and removed from service until repaired and tested.
- The following tests shall be performed on all cord sets, receptacles which are not part of the permanent wiring of the building or structure, and cord and plug connected required to be grounded:
  - All equipment grounding conductors shall be tested for continuity and shall be electrically continuous.
  - Each receptacle and attachment cap or plug shall be tested for correct attachment of the equipment grounding conductor. The equipment grounding conductor shall be connected to its proper terminal.
- All required tests shall be performed:
  - Before first use
  - Before equipment is returned to service following any repairs
  - Before equipment is used after any incident which can be reasonably suspected to cause damage (for example, when the cord set has been run over
  - At intervals not to exceed 3 months, except that cord sets and receptacles which are fixed and not exposed to damage shall be tested at intervals not exceeding 6 months
- The company will not make available or permit the use by workers of any equipment which does not meet the above requirements.
- Tests performed as required will be recorded. This test record shall identify each receptacle, cord set, and cord and plug connected equipment that passed the test and shall indicate the late date it was tested or the interval for which it was tested. The equipment will be identified with a nonconducting tag or other means of identification. This record shall be kept by means of logs, color coding, (example – colored plastic tape) or other effective means and shall be maintained until replaced by a more current record. The record shall be made available on the job site for inspection by the Assistant Secretary of Labor and any affected employee.
- The company will use a different color plastic tape for each quarterly inspection. White 1<sup>st</sup> Quarter, Green 2<sup>nd</sup> Quarter, Red 3<sup>rd</sup> Quarter, and Orange 4<sup>th</sup> Quarter to follow industry best practices for construction and electrical. A plastic tape will be used to identify each cord set by a number (SP01, 02, 03 etc.). A written record will be maintained on all cords sets and news sets as they are added. A Volt/OHM meter will be used to test continuity of each set.

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### **SAFETYALERT**

#### **ASSURED ELECTRICAL EQUIPMENT GROUNDING CONDUCTOR PROGRAM**

INSPECT - TEST - COLOR CODE  
ALL ELECTRICAL TOOLS, EXTENSION CORDS, AND EQUIPMENT

**FIRST QUARTER**  
**JANUARY 1 – MARCH 31**

**COLOR CODE IS**

**White**

ENSURE ALL ELECTRIC APPARATUS HAVE BEEN SATISFACTORILY TESTED AND COLOR CODED  
PRIOR TO USE.

### **SAFETYALERT**

#### **ASSURED ELECTRICAL EQUIPMENT GROUNDING CONDUCTOR PROGRAM**


INSPECT - TEST - COLOR CODE  
ALL ELECTRICAL TOOLS, EXTENSION CORDS, AND EQUIPMENT

**SECOND QUARTER**  
**APRIL 1 – JUNE 30**

**COLOR CODE IS**

**Green**

ENSURE ALL ELECTRIC APPARATUS HAVE BEEN SATISFACTORILY TESTED AND COLOR CODED  
PRIOR TO USE

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## **SAFETYALERT**

### **ASSURED ELECTRICAL EQUIPMENT GROUNDING CONDUCTOR PROGRAM**

INSPECT - TEST - COLOR CODE  
ALL ELECTRICAL TOOLS, EXTENSION CORDS, AND EQUIPMENT

**THIRD QUARTER**  
**JULY 1 – SEPTEMBER 30**

**COLOR CODE IS**

**Red**

ENSURE ALL ELECTRIC APPARATUS HAVE BEEN SATISFACTORILY TESTED AND COLOR CODED  
PRIOR TO USE

## **SAFETYALERT**

### **ASSURED ELECTRICAL EQUIPMENT GROUNDING CONDUCTOR PROGRAM**

INSPECT - TEST - COLOR CODE  
ALL ELECTRICAL TOOLS, EXTENSION CORDS, AND EQUIPMENT

**FOURTH QUARTER**  
**OCTOBER 1 – DECEMBER 31**

**COLOR CODE IS**

**Orange**

ENSURE ALL ELECTRIC APPARATUS HAVE BEEN SATISFACTORILY TESTED AND COLOR CODED  
PRIOR TO USE