



## **SECTION 21**

# **ASSURED GROUNDING PROTECTION PROGRAM**



**1. ASSURED GROUNDING CONDUCTOR PROGRAM**

- A. **OSHA References:** 29 CFR 1926.404, 29 CFR 1926.32 (f)
- B. **Scope:** On Maul Electric, Inc sites, where the grounding program outlined in Section 19 of this manual cannot be complied with, the requirements of this Section and OSHA 29 CFR 1926.404 will apply.
- C. **Program:** This program is designed to provide for inspection, testing, and documentation of testing for all Maul Electric, Inc sites not in compliance with Section 20 of this manual. 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 employees covered by this program. In addition a copy of this program shall be posted or kept in a location where employees can reference it if needed.
- D. **Approval Authority:** This program is not valid for the site unless approved and endorsed by the Maul Electric, Inc Safety Director. A separate program endorsement is required for each site.
  - 1. **Sample Endorsement:** I have reviewed this site and found that it is not in compliance with Section 19 of the Maul Electric, Inc Health and Safety policy and procedures manual. The requirements of the Assured Grounding Protection Program, as outlined in this Section, are approved for use at this site and compliance with this Section is mandatory. This policy will remain in effect until work at the site is completed.
  - 2. **Competent Person (S):** In accordance with 29CFR 1926.32(f) and 1926.404, the below named individual(s) are named as competent person(s) required to implement the requirements of this program.

\_\_\_\_\_  
(SITE LOCATION AND NAME)

\_\_\_\_\_  
(NAME OF DESIGNATED COMPETENT PERSON)

\_\_\_\_\_  
(NAME OF DESIGNATED COMPETENT PERSON)

\_\_\_\_\_  
(NAME OF COMPANY SAFETY DIRECTOR)

\_\_\_\_\_  
(DATE OF APPROVAL)

\_\_\_\_\_  
(SIGNATURE)

- E. **Posting:** A copy of the endorsed policy for each site must be posted at the site. All required documentation of testing will be kept at the site until



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completion of the project. At completion, all documentation will be returned to the Maul Electric, Inc office for appropriate disposition.

- F. **Identification Of Equipment:** Electrical tool are either portable or transportable. Examples of each are as follows:
1. Examples of portable equipment:
    - a) Hand drills, grinders, portable band saws, reciprocating saws, circular saws
    - b) Extension cords, drop lights, portable lighting
  2. Examples of transportable equipment
    - a) Pipe threading machine, power washer
    - b) Manlifts, platform lift
- G. **Visual Inspections:** Any / all portable and transportable 110V (or higher) electrical tools and equipment used on any Maul Electric project site(s) are to be inspected annually according to the following check points:
1. Certification UL, NRTL, or equivalent
  2. Wire Conditions
    - a) No visible damages to the insulator
    - b) No visible signs of cracks and/or excessive wear
    - c) Good flexibility
  3. Plug Conditions
    - a) No visible damage to the insulator
    - b) No visible signs of cracks and/or excessive wear
    - c) Ground prong in place
    - d) Plug prongs do not move or wobble
  4. General Conditions of the equipment
    - a) No visible damage to casings
    - b) No visible abnormal sparking while in operation
    - c) Does not get excessively hot during operation
- H. Any portable and transportable 110V (or higher) electrical tools and equipment used on any Maul Electric project site(s) will be kept in good operating condition and display the required OSHA Approved Cord Inspection Color Code, representing the month of annual inspection, on the power cord of each piece of equipment in accordance with the chart that follows:



## OSHA Approved Cord Inspection Color Code

Assured Equipment Grounding Conductor

Program Color Code

Month #	Month Tested	Color of tape(s) to apply to cord
1	January	White (Winter)
2	February	White + Yellow
3	March	White + Blue
4	April	Green (Spring)
5	May	Green + Yellow
6	June	Green + Blue
7	July	Red (Summer)
8	August	Red + Yellow
9	September	Red + Blue
10	October	Orange (Fall)
11	November	Orange + Yellow
12	December	Orange + Blue



### I. **Tests:**

1. The following tests will be performed prior to first use; prior to returning equipment to service following any repair; and before equipment is used after any incident which could be reasonable expected to have caused damage (i.e., cord sets run over by vehicles) and at not less than monthly month intervals.
  - a) All equipment grounding conductors shall be tested for continuity and must be electrically continuous.
  - b) Each receptacle and attachment cap or plug must be tested for correct attachment of the equipment-grounding conductor.
  - c) The equipment-grounding conductor must be connected to its proper terminal.
  
2. At intervals not to exceed annual, all cord sets and receptacles not exposed to damage must be inspected following the protocol outlined in G-1, (a), (b) and (c) above.

J. **Documentation Of Tests:** All tests will be conducted by the competent person(s) designated for this site and documented on the attached form.

K. **Damaged Equipment And Failed Equipment:** Must be removed from service immediately, repaired, inspected and tested prior to return to service.

