



ASSURED EQUIPMENT GROUNDING CONDUCTOR PROGRAM

Scope

This Assured Equipment Grounding Conductor (AEGC) Plan (Plan) covers all work areas where electrical outlets are not equipped with ground-fault circuit interrupters (GFCIs) and where any employee is exposed to potential electrical hazards from cord sets, receptacles not part of permanent wiring, and equipment connected by cord or plug.

This Plan is in compliance with federal rules for wiring design and protection in general industry workplaces (29 CFR 1910.304(b)(3)).

Authorization

This Plan is authorized by **Thomas Betschart, Safety Manager.**

Signature: Thomas Betschart

Policy

Burns Industrial Equipment will ensure the safety of its employees from potential electrical hazards caused by cord sets, receptacles which are not a part of the permanent wiring of the building or structure, and equipment connected by cord and plug which are available for use or used by employees and not equipped with GFCIs.



PLAN ADMINISTRATION

Competent person. The following personnel are designated as competent to implement all procedures in this Plan:

Competent Person Name	Department	Phone
George Demko	Field Service	412-856-9253
Mike Dutcher	Shop Service	412-856-9253

Plan Review and Update

This Plan will be periodically reviewed and updated when:

- New types of electrical utilization systems or equipment are introduced into the workplace.
- Evaluations of workplace hazards, injuries, and near misses demonstrate that the current Plan is outdated or not effective.
- Regulatory or applicable national consensus standards change that require this Plan to be updated.

DEFINITIONS

Competent person means one who is capable of identifying existing and predictable hazards in the surroundings or working conditions which are unsanitary, hazardous, or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate them.

Ground-fault circuit interrupter (GFCI) means a safety device designed to sense electrical leakage to ground and to quickly shut off the circuit to prevent electric shock.

Qualified person means an employee familiar with the construction and operation of equipment and the hazards involved.

EQUIPMENT USE PROHIBITED

Employees must use a temporary electrical supply source or receptacle equipped only with a GFCI which meets the equipment grounding requirements of this Plan. All employees are



prohibited from using any temporary electrical supply sources or receptacles that do not meet these requirements.

Electrical supply sources or receptacles found damaged or defective or that fail any of the inspections or tests prescribed by this Plan will be removed from service until repaired or replaced.

EQUIPMENT INSTALLATION

Personnel authorized and qualified to install receptacles will implement the following procedures when installing grounding conductors:

- All 120-volt, single-phase, 15- and 20-ampere receptacles will be of the grounding type and their contacts will be grounded by connection to the equipment grounding conductor of the circuit supply to the receptacle according to the applicable requirements of National Fire Protection Association (NFPA) 70: *National Electrical Code*[®] (NEC).
- All 120-volt cord sets (extension cords) will have an equipment grounding conductor connected to the grounding contacts of the connector(s) on each end of the cord.
- The exposed current-carrying metal parts of cord and plug-connected tools and equipment that are likely to become energized will be grounded according to the applicable requirements of the NEC.

EQUIPMENT VISUAL INSPECTION

The following equipment will be visually inspected before each day's use for external defects (e.g., deformed or missing pins or insulation damage) and for indication of possible internal damage:

- Cord sets
- Attachment caps
- Plug and receptacle of cord sets
- Any equipment connected by cord and plug except cord sets and receptacles that are fixed and not exposed to damage

EQUIPMENT TEST

Continuity Test

Grounding conductors on the following equipment must be tested for continuity and must be electrically continuous:

- All cord sets
- Receptacles that are not a part of the permanent wiring of the building or structure

Ground Fault Protection Program



Effective Date: 12/31/2019

- All plug-connected equipment required to be grounded

Ground Conductor Test

All cord sets, receptacles that are not a part of the permanent wiring of the building or structure, and all plug-connected equipment required to be grounded must be tested for correct attachment of the equipment-grounding conductor. The equipment-grounding conductor must be connected to its proper terminal.

The results of equipment tests will be recorded on the attached Assured Equipment Grounding Conductor Test Record.

Test Schedule

All required tests will be performed:

- Before the first use
- Before equipment is returned to service following any repairs
- Before equipment is used after any incident that can be reasonably suspected to have caused damage, such as when a cord set is run over
- Every 3 months
- Every 6 months for cord sets and receptacles that are fixed and not exposed to damage

TRAINING

All employees or other personnel authorized to repair or replace temporary power supplies or receptacles will be trained and qualified to perform such operations.

Employees who use temporary power supplies and receptacles for portable power tools will be instructed in the safe use of such equipment and how to recognize and avoid unsafe conditions or equipment.

INSPECTION AND TEST RECORDS

All inspections and tests will be documented to identify each receptacle, cord set, and cord- and plug-connected equipment that passed the inspection or test, the date of inspection or test, and the individual responsible for the inspection or test.

The test records will be kept by means of *[insert method such as logs or color coding]* and will be maintained until replaced by a more current record. The record is available on the jobsite for inspection by agency representatives and any affected employee.

ATTACHMENTS

Assured Equipment Grounding Conductor Test Record

ASSURED EQUIPMENT GROUNDING CONDUCTOR TEST RECORD

Worksite/Location

Equipment Tested	Date Tested	Action (if any)	Reason	Signature of Tester

Reason for test:

- A** — Before the first use of equipment
- B** — Before the equipment is returned to service following any repairs
- C** — Before equipment is used after an incident that might have caused damage to the equipment
- D** — Within 3 months of the last test for temporary cord sets and receptacles that may be exposed to damage
- E** — Within 6 months for fixed cord sets or receptacles that are not exposed to potential damage

Authorized Signature

Name:

Signature:

Date: / /