



BEST
Policy No. - 98-006
Date - 9-10-07
Revision - 4.1
Reviewed - 10/24/2011

Electrical Cord Inspection Policy

This policy ensures that visual and physical inspection of extension cords and corded power tools are performed.

- The term cord includes extension cords and any tool or machine that has a cord attached; such as, portable power tools, double insulated tools, grinders, saws, etc. and has the ability to be plugged in to a receptacle.
- Extension cords and corded power tools will be visually and physically inspected before every use or after repairs have been made.
- It is the responsibility of all users to verify that the cords have been checked and marked. This applies to first time use and annual cord inspections.
- Authorized personnel will perform needed repairs.
- Extension cord caps are allowed to be replaced.
- Repairs are not allowed on damaged insulation or damaged conductors on extension cords. The damaged cord shall be disposed of.
- Corded power tools shall be repaired using OEM or equivalent cords.
- Cords are checked by visually looking for areas damaged by crimping, pinching, cuts, exposed bare wiring, pulled or stretched wiring, cord pulled out of the plugs, burned or smashed areas, discoloration or other damage.
- Cords will be checked for soft or brittle areas by feeling along the entire length for indications of chemical, mechanical or heat damage.
- Cords will be checked for damaged or loose cord grip connectors and cord pull grips. If a cord is flimsy or bends too easily this may be an indication of damage due to excessive bending and may indicate broken wiring.
- All extension cords and corded power tools will have u-ground connectors or they will be taken out of service until repaired or replaced by authorized personnel.

Exceptions: Tools and appliances manufactured without a u-ground, as per UL approved, i.e., coffee pots, double insulated tools, office equipment, etc.

- All metal enclosing or encasing electrical circuits shall be grounded or provided with equivalent protection. This requirement does not apply to battery-operated equipment.

30 CFR 56.12025

- Power tool cords must be physically inspected for continuity of the grounding conductor to the case of the corded power tool. Extension cord continuity checks will be made on all conductors to ensure correct wiring. Cords passing this verification will be marked with the proper color-coded tape for the current year (listed later) at the plug end only. The previous year's tape shall be removed.
- Power tools will be inspected for missing and damaged guards or other physical damage. **Trigger locks are illegal and shall be rendered unusable or removed.**
- Coffee pots, refrigerators, microwaves, drinking fountains, soda machines, battery chargers, etc., will be checked during routine safety audits. Only continuity tests and visual checks will be done to sensitive equipment such as UPS units and computer equipment.
- Area department tool rooms shall have the authorized personnel certify new tools for use.
- Contractor and Freeport McMoRan yearly color codes will be identical. Contractor monthly color code tape will be different from the yearly color code and will be identified by each contractor.
- Contractors will be responsible for their own daily, monthly and yearly inspections and testing of their own equipment.

Marking Tape Color Code

2011	-	Brown
2012	-	Orange
2013	-	Yellow
2014	-	Red
2015	-	Green