

## Flammable and Combustible Liquids

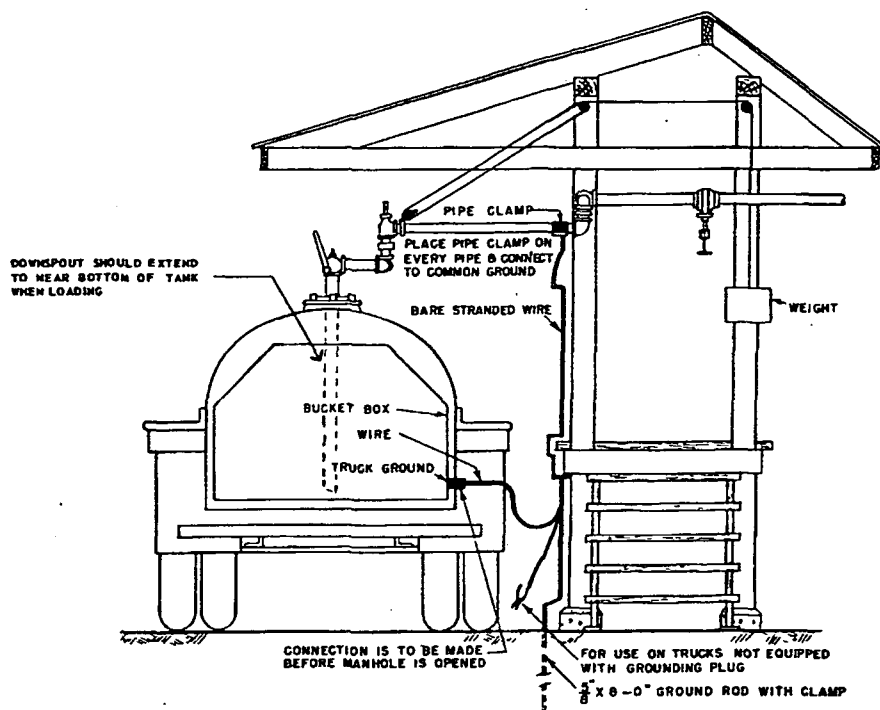


FIG 34-6 - Bonding and grounding of a flammable liquid tank truck and loading rack

a flammable liquid tank truck and loading rack

In areas where flammable liquids are stored or used, hose nozzles on steam lines used for cleaning should be bonded to the surface of the vessel or object being cleaned

Moving belts are sources of static electricity unless they are made of a conductive material or are coated with a conductive belt-dressing compound designed to prevent static charges from being built up

Nonconductive materials, such as fabric, rubber, or plastic sheeting passing through or over rolls will also create charges of static electricity. Static from these materials as well as from the belts can be discharged with grounded metal combs or tinsel collectors. Radioactive substances and static neutralizers using electrical discharges are also employed for this purpose

Bonding and grounding systems should be checked regularly for good order, especially electrically. Preferably before each fill, the

exposed part of the bonding and grounding system should be inspected for parts which have deteriorated because of corrosion or have otherwise been damaged. Many companies specify that bonds and grounds be constructed of bare braided flexible wire because it facilitates inspection and prevents broken wires from being concealed, as discussed earlier

### Electrical equipment

Electricity becomes a source of ignition where flammable vapors exist if the proper type of electrical equipment for these atmospheres either has not been installed or has not been maintained. The NFPA Standards and their *National Electrical Code* should be consulted in all cases

### Spark-resistant tools

Although the hazard of ignition of flammable vapors or gases by sparks may at times be overemphasized, it must be recognized