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Effective Equipment Grounding

Are you familiar with the differences between "Earth Grounding" and "Equipment Grounding" ?

The basic purpose of an earth-grounding system is to protect the electrical system and equipment from super-imposed voltages caused by lightning and accidental contact with higher voltage systems. The earth-ground connection also prevents the buildup of static charges on equipment and materials.

Equipment grounding serves several functions. First, it is the primary way to protect personnel from electrocution. Secondly, it is the most critical common link to all electronic components of a data, telecommunications, or process-control system.



What types of problems occur due to insufficient ground?

- System shutdowns
- Inconsistent control of pumping systems
- Sensor errors
- Loss of communication between control devices
- Damage to electrical/electronic equipment
- Injuries to Personnel



Often times people confuse the two ("Earth Grounding" and "Equipment Grounding") resulting in grounding practices that can lead to inefficient performance, costly downtime and maybe even unsafe working conditions. To learn more, [read the entire article here.](#)

Call EPG at **1-800-443-7426** with any questions regarding earth and equipment grounding. Let our experience reinforce your effort to succeed!

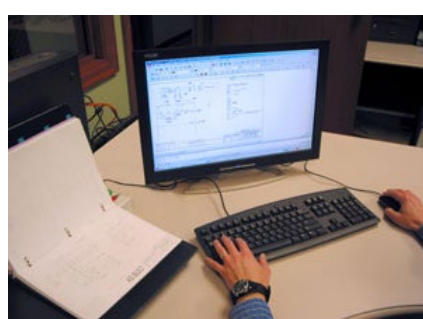
UL Control Panel Modifications

Maintaining the integrity of a UL control panel design and build is critical to retaining its UL Listed status, safety, and serviceability.

A UL listed EPG control panel no longer satisfies the requirements of it's UL listing if it is modified in an unapproved way. Modifications can be made if the changes and parts used are reviewed by the holder of the UL file (E) number.

Common panel modifications include:

- Pump changes (horsepower)
- Dry contact outputs
- Additional instrumentation
- Changes in supply voltage and/or phase
- Modification to wiring
- And much more



You can verify the EPG UL# **E219136** - Industrial Control Panels Relating to Hazardous Locations [Here](#)



EPG's Field Mod Program consists of step-by-step written instructions, revised CAD drawings and labels, both of which come ready to be applied to the electrical enclosure, and either parts required to make modification or a list of parts to be used. All documentation is associated with the original work and filed for future reference.

What risks are taken by not using the EPG Field Mod Program?

- Nullifies the UL Listed status of the panel
- Impacts the original SCCR rating of the panel
- Troubleshooting and servicing becomes difficult due to undocumented changes
- System becomes unreliable and even inoperable
- Compromises the safety of staff and service personnel
- Reduces effectiveness of circuit and component protection
- Voids any remaining warranty

By using the EPG Field Mod Program you retain the control panel's UL listing, maintain safety standards, and have the added benefit of telephone service support.

To find out if your control panel supplier is UL Listed, ask for their E # or visit the [UL Online Certification Directory](#) to find out.

If you have any questions or concerns regarding the Field Mod Program, please call EPG at 1-800-443-7426. We can help!

Industry Events

July 14-16 Missouri Waste Control Coalition
Lake of the Ozarks, MO (The Reich Co. Exhibiting)

September 10-12 North Dakota Solid Waste & Recycling Assoc.
Bismarck, ND (EPG Exhibiting)

Oct 01-03 Kansas SWANA Solid Waste Mgmt. Conf.
Mulvane, KS (The Reich Co. Exhibiting)

Oct 21-24 2019 WASTECON
Phoenix, AZ (EPG / Viridian America Exhibiting)

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