

PETRO GROUNDING





Grounding is the foundation of an effective lightning and static protection system. Petro Grounding provides a set of “grounding best practices for oil and gas facilities,” applying API, IEEE, NFPA, UL, and IEC standards. Petro Grounding’s recommendations and solutions give lightning and static protection systems a reliable connection to the earth, which is crucial for quickly and safely removing destructive energy from assets, then directing that energy into the ground.



PETROGUARDIAN

29089 Krentel Rd., Ste. 100, Lacombe, LA 70445
Phone: 985-882-2985 | Fax: 985-882-5032
team@petroguardian.com

-  facebook.com/petroguardian
-  twitter.com/petroguardian
-  petroguardian.com

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Grounding Practices for Oil and Gas

Common issues related to grounding of Oilfield Assets

Grounding is the foundation of electrical safety. Independently grounded systems lead to the formation of ground current loops during lightning events, and are a safety hazard for personnel and processes. When grounding systems are installed without adequate soil analysis, they can be highly resistant to the soil they are in, rendering them ineffective just when they are needed and leading to fire and explosion in areas storing flammable hydrocarbons. Incorrect sizing, placement, or routing of grounding systems is a recipe for disaster. Power system grounding, signal reference grounding, safety grounding, lightning protection grounding, static mitigation grounding, and cathodic protection grounding all have unique requirements for cable size, placement, and routing. Petro Grounding recognizes that while each system must be engineered to current standards, one system may not fit all.

Grounding Services for Oil Field Assets

- ✓ Soil resistance measurement
- ✓ Grounding system resistance measurement
- ✓ Equipotential ground verification
- ✓ Grounding equipment rating verification
- ✓ NFPA 780 and NFPA 77 compliance study
- ✓ Lightning damage root cause analysis and shielding recommendations
- ✓ Design and supply of grounding systems for storage tanks
- ✓ Design and supply of grounding systems for process skids
- ✓ Design and supply of grounding systems for SCADA/ communication towers
- ✓ Design and supply of grounding systems for cathodic protection control unit
- ✓ Design and supply of grounding system for well heads, separators, heater treaters, and vapor recovery
- ✓ Design and supply of grounding systems for static control on transfer stations