

PETRO STATIC





Static charge accumulates during splash filling of a vessel or flow of volatile fluids through a pipe. There is a high risk of ignition from static discharge in upstream oil and gas facilities. When a static charge has insufficient time to relax and neutralize naturally, catastrophic events can take place, putting personnel and assets at risk. Petro Static provides “static mitigation best practices for oil and gas facilities.” Petro Static’s recommendations include products and procedures to mitigate fiberglass tank fires, tanker load-out terminal fires, tanker truck fires, vent valve fires, and thief hatch fires.



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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Static Protection for Oil and Gas

Common issues related to static protection of Oilfield Assets

While flammable fluid is transferred in and out of a fiberglass tank, the process continuously generates static charge. The American Petroleum Institute (API) and the National Fire Protection Association (NFPA) have recommended procedures for grounding static charge during storage and transfer of flammable fluids. And yet, fiberglass tanks storing flammable fluids are often left ungrounded both inside and out. Any direct lightning strikes to the ungrounded tank results in an explosion. Serious fires in fiberglass tanks, around thief hatches, at vent valves, and during tanker load-out can be avoided by incorporating Petro Guardian's carefully designed static protection systems at flammable storage and transfer facilities.

Through its experience in the field of lightning protection and grounding for oil and gas facilities, Petro Guardian has developed best practices to address static mitigation techniques at upstream and midstream facilities. Petro Guardian identifies the potential sources of static discharge and designs solutions to mitigate failures.

Static Protection for Oilfield Assets

- ✓ Static grounding and bonding equipment rating verification
- ✓ API RP2003 and NFPA 77 compliance study
- ✓ Design and supply of fiberglass tank-in-tank static control systems
- ✓ Design and supply of truck load-out static control systems
- ✓ Design and supply of thief hatch static control systems
- ✓ Design and supply of flowback static control systems
- ✓ Design and supply of fracking static control systems