

# PETRO LIGHTNING PROTECTION





Although lightning obviously cannot be eliminated, the risks of ignition associated with a lightning strike can be minimized. Petro Lightning provides a set of "lightning protection best practices for oil and gas facilities," applying API, IEEE, NFPA, UL, and IEC standards. Our installation and maintenance of lightning protection systems are designed to prevent ignition within a flammable environment.



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# PETRO LIGHTNING

## Lightning Protection for Oil and Gas

### Common issues related to lightning protection of Oilfield Assets

When lightning protection systems in a flammable environment are not properly designed, installed, and maintained, there is a serious risk for ignition. All too often, we have seen traditional air terminals and catenary lightning protection systems installed on oilfield assets. During developing lightning storms, these improper installations can generate “streamers,” high-energy events that can lead to ignition of the vapor space. The conductors are the backbone of a lightning protection system and if incorrectly sized, incorrectly routed, and not of the right material for corrosion resistance, the entire system will be compromised, resulting in a high-resistance path for lightning currents, then flash-over and fire. Poor grounding of lightning protection systems is the fundamental cause of system failures and tank fires. Petro Lightning provides the proper grounding to protect your oilfield assets.

### Lightning Protection for Oilfield Assets

- ✓ Risk assessment service
- ✓ API RP2003 and NFPA 780 compliance study
- ✓ Design and supply of lightning protection for drilling rigs
- ✓ Design and supply of lightning protection for single and multiple well pads
- ✓ Design and supply of lightning protection for central processing facilities (CPF)
- ✓ Design and supply of lightning protection for saltwater disposal sites (SWD)
- ✓ Design and supply of lightning protection for compressor stations
- ✓ Design and supply of lightning protection for storage tank farms
- ✓ Design and supply of lightning protection for transfer facilities
- ✓ Design and supply of lightning protection for SCADA/communication towers