



PETROGUARDIAN™
LLC

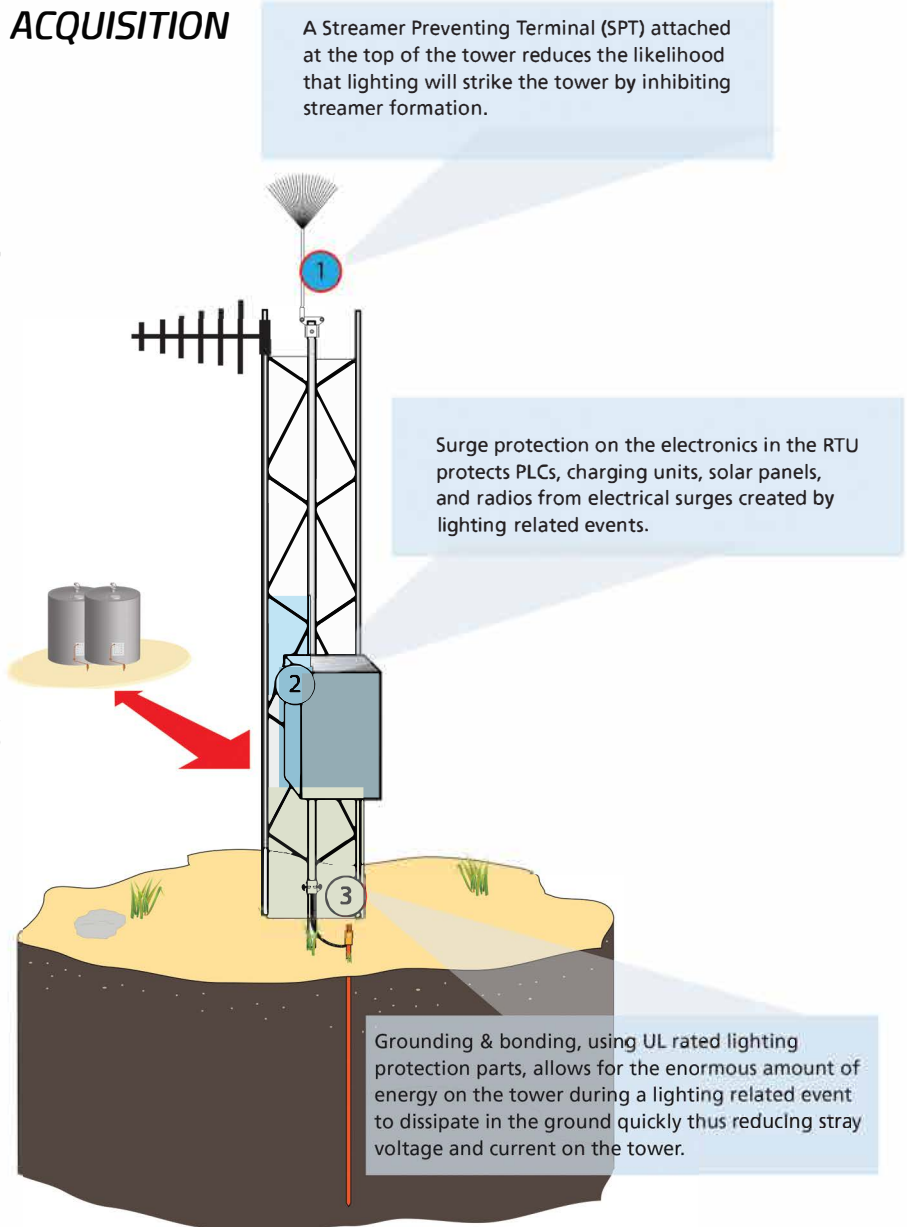
SCADA

SUPERVISORY CONTROL AND DATA ACQUISITION

Petro Guardian LLC specializes in lightning protection for oil and gas companies. Petrochemical storage, saltwater disposal, and production tanks are typically in remote areas and need monitoring via radio communication, making necessary to erect towers to support the antenna element.

Many SCADA systems consist of long runs of field cabling, sensitive signaling lines from the RTUs, and communications systems with microwave links on tall towers. Lightning strikes, whether direct or indirect, can cause damage to sensitive electronics in many parts of the system.

Petro Guardian has identified three potential points of weakness in your SCADA system. Our protection plan helps mitigate the damage caused by lightning related events.



CONTACT US TODAY TO LEARN MORE ABOUT PROTECTING SCADA EQUIPMENT FROM LIGHTNING AND SURGE EVENTS.

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1. Streamer Preventing Terminals

Communication devices used to relay information from RTU's to the master control station are generally placed on towers and other elevated sites. As a result they are prone to lightning damage. Providing streamer preventing terminals (SPTs) on top of the tower reduces the likelihood that a strike will attach.

Part Number	Description
Aluminum	
DIS201	Aluminum Dissipator 1/2" x 12"
DIS202	Aluminum Dissipator 1/2" x 18"
DIS203	Aluminum Dissipator 1/2" x 24"
LPA309	1/2" to 1" Pipe Base SPT mount

2. Electronic Surge Protection

Surge protection is essential for protecting crucial electronics withing the RTU housing. Petro Guardian carries a full line of Sine Up brand surge protection devices to fit any application from 4-20ma to 4160 volt.

Part Number	Description
TS2231P1	2 wire + ground 120v AC 15 amp series SPD
TS22312DC	2 wire + ground 12v DC 15 amp series SPD
TS222324DC	2 wire + ground 24v DC 15 amp series SPD

3. Grounding & Bonding

Lightning protection always begins with grounding and bonding. Using listed lightning protection conductor and fittings is essential to properly protect a tower during a lightning related event. This system of parts allows for the tremendous amount of energy created by lightning to quickly leave the structure and dissipate into the earth.

Part Number	Description
LPC520T	Pipe clamp fits 3/4" to 1-1/4" --tinned
LPC521T	Pipe clamp fits 2" to 2 5/8" --tinned
LPC110	Copper class I lightning conductor --tinned
GND104	Copper clad ground rod 3/4" x 5'
GND200	Ground rod coupler - compression 3/4"
GND120	High density polyethylene test well

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