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.**

985-882-2985
SALES@PETROGUARDIAN.COM

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

PETRO GUARDIAN, LLC
29089 Krentel Rd., Suite 100
Lacombe, LA 70445
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.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum</td>
<td></td>
</tr>
<tr>
<td>DIS201</td>
<td>Aluminum Dissipator 1/2” x 12”</td>
</tr>
<tr>
<td>DIS202</td>
<td>Aluminum Dissipator 1/2” x 18”</td>
</tr>
<tr>
<td>DIS203</td>
<td>Aluminum Dissipator 1/2” x 24”</td>
</tr>
<tr>
<td>LPA309</td>
<td>1/2” to 1” Pipe Base SPT mount</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TS2231P1</td>
<td>2 wire + ground 120v AC 15 amp series SPD</td>
</tr>
<tr>
<td>TS22312DC</td>
<td>2 wire + ground 12v DC 15 amp series SPD</td>
</tr>
<tr>
<td>TS222324DC</td>
<td>2 wire + ground 24v DC 15 amp series SPD</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LPC520T</td>
<td>Pipe clamp fits 3/4” to 1-1/4” --tinned</td>
</tr>
<tr>
<td>LPC521T</td>
<td>Pipe clamp fits 2” to 2 5/8” --tinned</td>
</tr>
<tr>
<td>LPC110</td>
<td>Copper class I lightning conductor --tinned</td>
</tr>
<tr>
<td>GND104</td>
<td>Copper clad ground rod 3/4” x 5’</td>
</tr>
<tr>
<td>GND200</td>
<td>Ground rod coupler - compression 3/4”</td>
</tr>
<tr>
<td>GND120</td>
<td>High density polyethylene test well</td>
</tr>
</tbody>
</table>

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