



**PRODUCT APPLICATION NOTE**

**Oil & Gas Operations & Infrastructure Protection**

**Raycap's Electrical Protection Solutions for Oil & Gas**

Ensure unparalleled reliability and availability of your pumps, motors and drives with Strikesorb® Surge Protective Devices, a field proven protection technology for electrical systems in oil and gas operations.

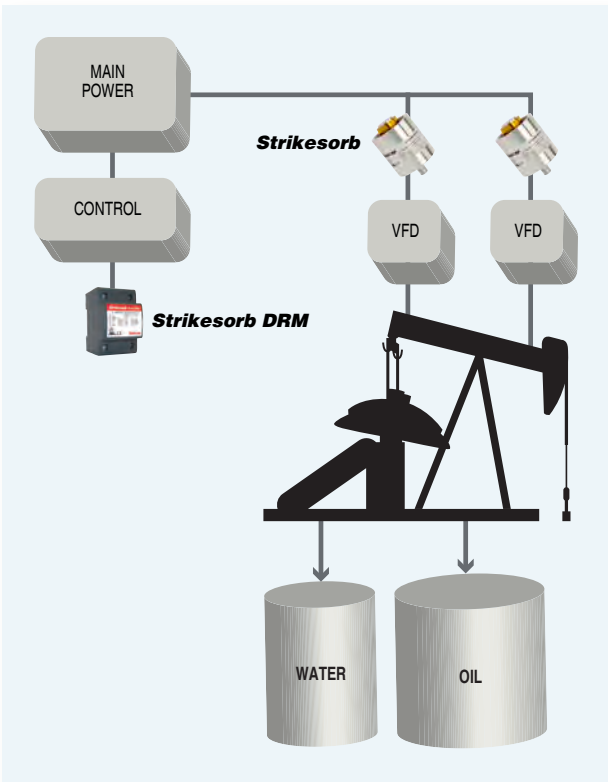


Figure 1: A typical oil and gas installation featuring Strikesorb surge protection can effectively protect critical electronics in drilling and pumping operations from devastating lightning and voltage surges.

Electrical equipment used on the oil patch and gas field is critical to keeping operations running smoothly. Pumping stations and pipelines which transfer oil and gas from derricks and drilling stations to large storage tanks depend on motors, drives and pumps to get the job done. Variable frequency drives (VFDs), controlled by electronic control systems, are constantly working overtime to reduce and adjust the amount of energy used by the motors and pumps that filter, separate and

transport the fuel. All of these systems are vulnerable to failure from transient electrical surge events or lightning strikes, and require reliable electrical protection.

**The Challenge**

Harsh climates, inaccessible terrain, high labor costs and remote locations all make maintenance of oil and gas field equipment very expensive. In order to ensure uptime and reduce operating expenses,



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**INNOVATING POWER PROTECTION WORLDWIDE**

energy field operators must find new ways to keep their control systems, VFD's, medium voltage VFD's and cathodic protection systems functioning as required.

### The Solution

Reliability and uptime are of critical importance to oil and gas operations. By simply using effective electrical protection

the reliability of the equipment in the field, and the integrity of the pipeline, can be greatly improved.

Raycap products featuring the unique Strikesorb surge protection technology are ideal solutions for the protection of mission-critical industrial equipment. Strikesorb's maintenance-free design and

field-proven performance can ultimately decrease operating expenditures and increase profitability in oil and gas operations.



“ Strikesorb, Raycap's unique surge suppression technology, is a high surge capacity protection element able to efficiently manage high energy transient currents. Strikesorb offers oil and gas field operators maintenance-free protection and is perfectly suited for mission-critical applications in rugged environments. ”

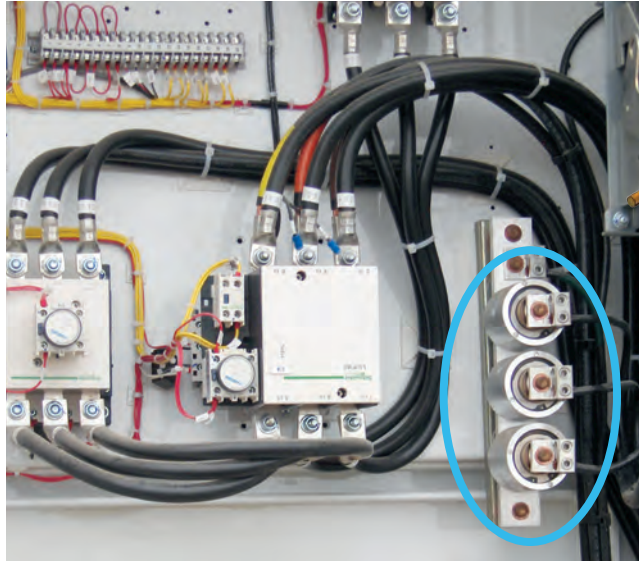
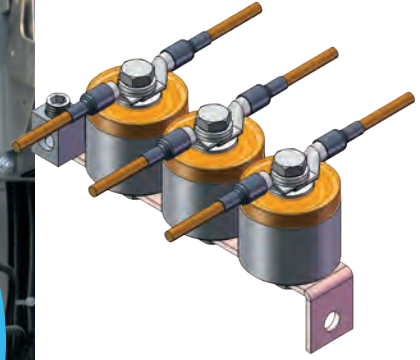


Figure 2: Strikesorbs installed on a busbar inside a VFD cabinet.



### Strikesorb Benefits

- Maintenance-free operation: Strikesorb can take multiple electrical surges and continue to protect the equipment it is designed to protect
- Safe operation: No smoke, fire or explosion
- Unique capability to withstand multiple high-energy transients
- Low let-through voltage, providing excellent protection compared with competitive SPD products
- Class I/Class II compliant SPD per IEC 61643-11
- Global standards compliance: UL 1449 5<sup>th</sup> Edition, IEC, IEEE, NEMA
- 10 year global product warranty



Figure 3: Strikesorb surge protection devices

**Raycap is a trusted partner, providing maintenance-free electrical protection solutions for mission-critical applications in hundreds of thousand installations worldwide. For a detailed presentation on how Raycap's Strikesorb-based solutions can protect your oil and gas field equipment, contact us today!**

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[www.raycap.com](http://www.raycap.com)

