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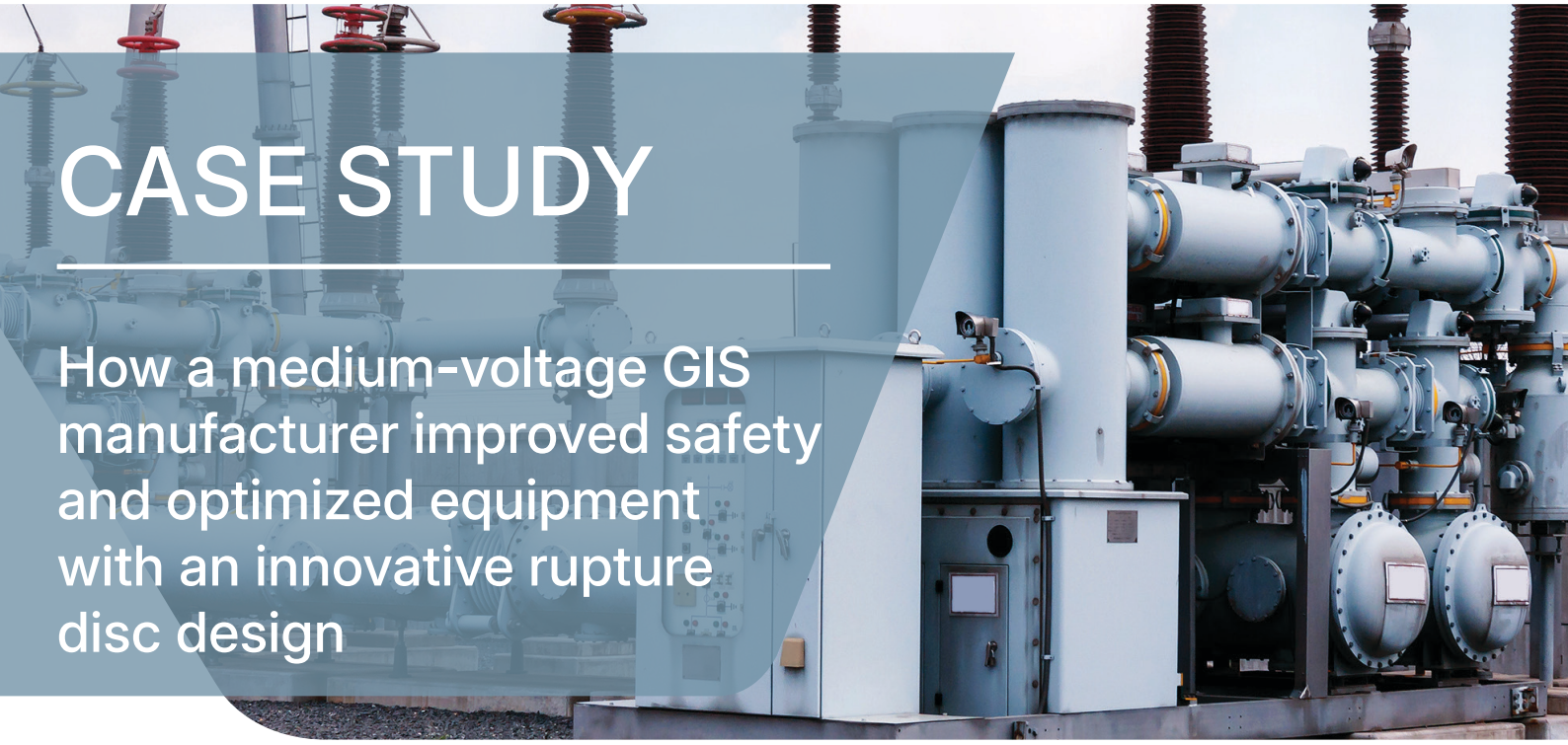


CASE STUDY

How a medium-voltage GIS manufacturer improved safety and optimized equipment with an innovative rupture disc design

SITUATION

The story began when, during leak testing on a medium-voltage transformer, the rupture disc fragmented violently, causing damage to equipment 19 feet away. The GIS manufacturer investigated the causes for this and found that:

- The o-ring seal between the disc and the hold down ring had allowed the disc to slip so that it was no longer seated correctly and could not withstand the pressure as intended.
- The hold down ring itself had also deflected over time, reducing the hold down force on the disc.

ACTION

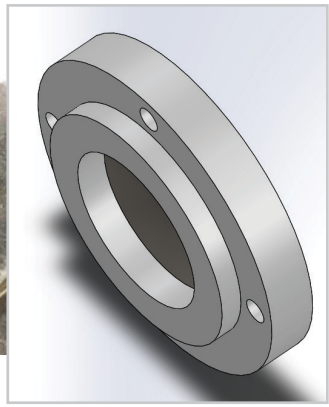
- Switch from a circular scored disc to a four-petal PCR disc to prevent fragmentation
- Weld the disc into an insert-and-shell design to prevent movement, slippage and deflection of the disc. Welding also protects the disc from damage when handling it.

RESULT

The welded rupture disc design provides a drop-in solution that eliminates extra components, offers simple installation and provides a secure, leak-tight seal with a non-fragmenting disc. As a result, the manufacturer has improved the safety and performance of their equipment, with:

- A safer design
- Quicker and easier construction and maintenance
- Reduced inventory
- Reduced training needs and complexity for new staff

The dual-welded disc assembly with a cross scored disc solves fragmentation and installation challenges



Contact us today for a no-obligation discussion on how you can optimize design and improve pressure safety across your switchgear units.

Our Design Engineers will work directly with your team, using their technical expertise and knowledge of industry codes to design a custom rupture disc solution that will meet your individual requirements and integrate perfectly with your equipment.