



Improve Reliability



Reduce Downtime



Improve Safety

ELECTRICAL INSPECTIONS IN THE OIL AND GAS INDUSTRY

PREVENT DISTRIBUTION SYSTEM FAILURE AND BREAKDOWN WITH THERMAL IMAGING

THE CUSTOMER'S CHALLENGE

When electrical connections and components break down unexpectedly, the result may be unplanned downtime, costly repairs, and production loss. There's also an increased risk of fire due to electrical short-circuits or cable burning. That's why it's important to perform routine checks to ensure that the electrical distribution system is in proper working order, including inspection of busbars, circuit breakers, fuses, and switchboards. Electrical distribution boards are typically housed inside cabinet enclosures, making them difficult to inspect for impending failures.

A SOLUTION

Electrical connections and components typically show signs of overheating before they fail. Thermal imaging technology can provide key information that the eyes alone cannot detect. A thermal camera, such as the FLIR E95, can show maintenance professionals hot spots on components and connections, helping them recognize stressed elements of an electrical installation before failure and break down. This gives them the opportunity to solve electrical issues as part of planned maintenance before it causes a serious and costly problem. Maintenance professionals can also use thermal imaging in combination with other instruments including clamp meters, digital multimeters, and IR Windows to ensure the distribution system is operating optimally.

THE RESULTS

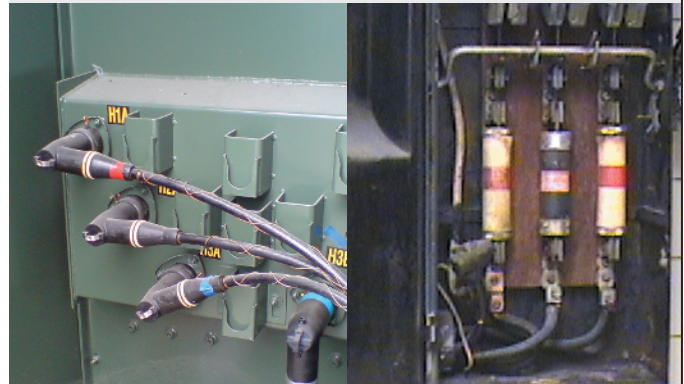
Through regular thermal inspections, maintenance professionals can quickly detect and locate temperature issues (hot spots) on electrical components and equipment. Loose connections, bad contact, fuse issues, unbalanced loads, and stressed earth leakage can be discovered using a thermal imager. Improve safety by reducing risk of electrical fire; avoid unexpected breakdowns; reduce risk of unplanned electrical outages; and organize planned repairs and preventive maintenance.

For more information about FLIR in the oil and gas industry or to schedule a product demonstration visit: www.flir.com/oilandgas/processing-refining

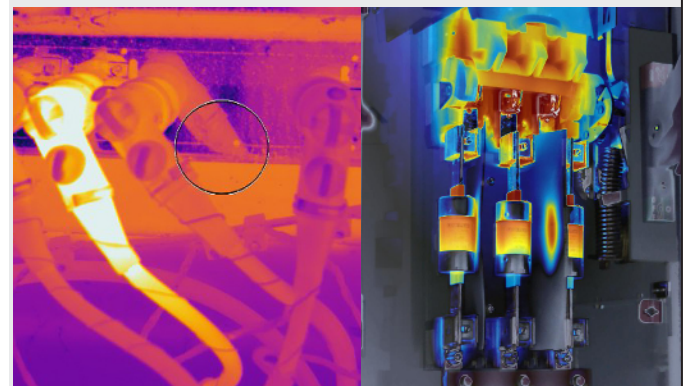
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Electrical failures may cause unplanned downtime, costly repairs, and production loss.



Adding a combination of thermal imaging tools and test equipment to a regular inspection routine can help oil and gas companies prevent breakdowns.



FLIR IR-Window

