CUSTOMER SUCCESS STORY

TEMPORARY POWER GENERATION, NORWAY

CHALLENGE
A major operator and turbine manufacturer posed the challenge to Consilium Norway AS and their subsidiary Micropack to resolve false alarms they were experiencing with IR3 flame detectors. The detectors were installed in an enclosure of a temporary power generation unit. It is well known that the inside of a turbine enclosure is a challenging environment for flame detection to operate. The blackbody radiation from the heat of the engine was causing the IR3 flame detector to alarm continuously and in turn cause multiple shutdowns resulting in lost production. Other challenges posed to flame detection in this application are high operating temperatures, dirty oily environment, vibration and the potential for condensation on the lens.

SOLUTION
Consilium and Micropack proposed the use of the CD-F-301 Visual Flame Detector in this application because it is not susceptible to the common false alarm sources that IR or UV flame detectors often respond to. Micropack understood the severity and seriousness of the situation and with the assistance of Consilium Norway AS were able to express deliver the detectors from our factory in the UK to the helipad in Stavanger. This was found to be the quickest method to get the detectors to site and when safety matters, Micropack and Consilium enable our clients to go further with confidence.

BENEFIT TO CLIENT
Our clients were able to retrofit the detectors instantly, safe in the mind that the confidence level in the flame detection system had been restored. Also critical to our clients was that production could be restarted and hundreds of millions of Norwegian Krone saved.

FACILITY
• Oil and Gas Production Platform — Temporary Power Generation

LOCATION
• Norway

INDUSTRY
• Upstream Oil and Gas Production

TECHNOLOGY
• Visual Flame Detection—CD-F-301

BENEFITS
• No unwanted shutdowns from flame detection
• Safety level and confidence restored
• Save millions by ensuring production can continue
VISUAL FLAME DETECTION

CD-F-301 is an explosion proof visual flame detector. The device processes live video images to detect the characteristic properties of flames by means of its digital signal processing and hardcoded software algorithms.

LIVE COLOUR VIDEO
A live colour video image is available from each detector; this allows information about the protected area to be displayed on a monitor in the control room, providing the operator with a visual feedback of an event, which can reduce response time.

FALSE ALARM IMMUNITY
The CD-F-301 demonstrates superior false alarm immunity. It is the safest and most advanced flame detector on the market today, and its track record on the thousands of installations around the globe has proven the instrument to be robust, even in the harshest of environments.

“By replacing the existing detectors with CD-F-301, we were able to restart production safely and cost effectively”.

Instrument Engineer | Norway

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