

WSG'S GAS LEAK DETECTION AND REPAIR SERVICES

An innovative method using the world's most sensitive optical gas imagery cameras

IN ADDITION to their current support services to storage tank operators, which includes infrastructure projects, maintenance and UHP tank cleaning services, WSG are further growing their offering as a leak detection and repair specialist (LDAR) with the addition of WSG Enviro to the WSG Group.

WSG's aim was to make regular maintenance or maintenance during outages and shutdowns seamless, efficient and productive with minimum downtime required.

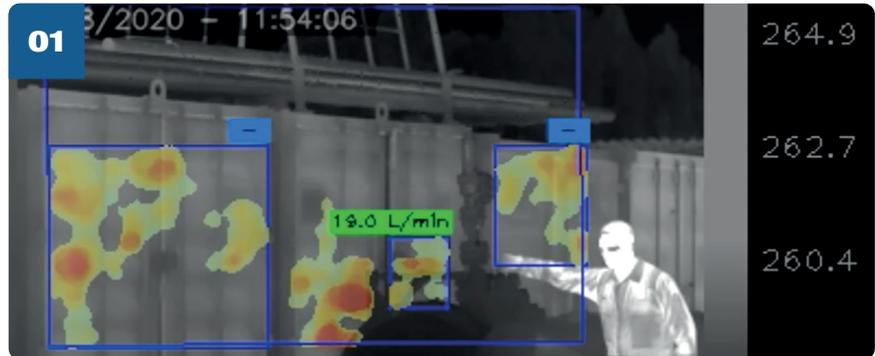
WSG already had an extensive track record as a leak detection and repair specialist, supplying services from the existing core business lines within WSG, such as nitrogen helium leak detection, flange management, onsite machining and WSG's valve service and repair business, WSG Provalve. With the inclusion of WSG Enviro's market leading optical gas imagery (OGI), they can now offer clients the unique opportunity to assess and inspect their assets up front of planned maintenance, or at agreed inspection intervals, to include any necessary repair work identified at the next scheduled maintenance interval.

Rob Griffiths, director at WSG Enviro is so confident in the technology behind the Opgal range of cameras that he recently set up a series of tests at WSG's facility at Normanton to demonstrate the accuracy of the optical gas imaging cameras and quantification software (Figure 1).

'We put the 24/7 and the 2.0 side by side and used the EyeCSite to control both, we also had the EyeCGas Mini. Typically, the weather was not favourable but as the Opgal range of cameras are rated IP65, and the cameras performance isn't affected by the weather, the results were clear,' he says.

He adds that the impressive results from the test backed by WSG's existing leak detection and repair experience means they have a very special offering for asset owners.

'Emerging regulatory requirements around fugitive emissions mean asset owners can partner with us to quantify and report emissions to atmosphere enabling them to meet, and exceed, regulatory requirements. Adoption of this upfront asset inspection and assessment will provide the plant owner with real



time data on the integrity of their plant, simultaneously reducing downtime on their assets by efficient scheduling of repair works for leaks detected.'

WSG OGI cameras, which are the world's most sensitive OGI cameras, not only identify leak points, but also provide quantification of any leaks, within bespoke software. This allows customers to determine criticality of the leaks reported for remedial work at client discretion. The cameras are certified to EPA regulations and are ATEX and UL certified for operation in hazardous environments. WSG can provide a wide-ranging inspection service complimented with a final leak report tailored to customer requirements. These services are delivered and managed by leak detection experts, supported by a competent and highly trained team of personnel.

WSG incorporates WSG Enviro, WSG Process & Pipeline, WSG Industrial Services and WSG Provalve. WSG LDAR capabilities are further supported by their in-house and specialist valve service and repair business, WSG Provalve, which offers state of the art testing, machining and ball grinding equipment, aimed at servicing high integrity pipeline valves, in particular ball valves, large bore isolation valves, control valves and safety relief. Coupling both the WSG joint integrity and flange management services with WSG Provalve, WSG are able to offer bespoke solutions for leak remediation works identified during the leak detection campaign.

WSG asset integrity management (AIM) software further supports the service

with an integrated and comprehensive software solution for management and record keeping of all WSG work fronts, including leak identification and reporting, onsite flange management and valve service and repair, offering a true blind-to-blind solution.

WSG also recognise the importance of verifying the leak repair implemented has been successful, ensuring the client has peace of mind when they successfully restart their asset and eliminating potential future downtime.

To do so they are able to offer a secondary leak test, either by reuse of the primary OGI cameras or by implementation of specialised pressure testing. They offer a wide range of pressure testing services from within the core WSG business, ranging from hydrostatic, pneumatic or nitrogen and helium leak detection.

WSG assess all projects to find the most suitable solution considering the size, structure and requirements of the client. Any combination of these services can be integrated and managed through one of their experienced industry specialists who work with clients to select the most appropriate application to suit the asset characteristics and operation.

For more information:

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01 An image from the demonstration at Normanton