Oil & Gas
Process monitoring

EVITECH's Jaguar® video analytics solution ensures safe monitoring of major raffinery processes in France. Jaguar ensures monitoring of oil & gas pipes, and detection of a gas leak or an oil leak in the first seconds.

Issue : Our customer had a major oil leak several months ago. The leak happened in the week-end and lasted for several hours without even being noticed. Thousands of square meters of oil were poured in a river. In addition to the ecological disaster, and cleaning costs, the company had to pay for hundreds of millions of Euros of damage penalties. The installations of the refinery included various types of oil, transported at different temperatures and pressures, from ambient temp. and pressure up to 130 bars at 100°C.

Solution : Thermal cameras were installed above the pipes at regular distances. Cameras were wired respecting the ATEX™ standard and connected to Jaguar monitoring units. Jaguar monitored the cameras images. Due to its exceptional sensitivity, which makes it possible to detect a change as small as one pixel, Jaguar could then detect all events happening around the pipes: a small leak on the side, a leak on the ground, and a small fog on the pipe side.

Tests : Tests were done using high pressure water cleaning tools, which deliver varying temperature and pressure. For the tests, the operator hided under or behind the pipes and simulated various sorts of leaks on the different pipes (themselves at different temperatures). Tests will then be carried on at regular times for ensuring the continuity of service of the solution.

Remarks : Jaguar can also be used for security purposes, such as detection of intruders on perimeter related cameras, monitoring of speeds of vehicles before site entrances, as well as presence detection at specific hours when nobody should be there.

About Evitech : Created in 2005 in France from a military R&D project, the company has rapidly developed with an average 200% CA progression rate. From a turnover of 500 K€ in 2008, the company targets a turnover of 1 M€ for 2009. EVITECH's software products address the fields of smart video surveillance for global security.

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