

Why choose Bureau Veritas?

Renowned expertise

For the past 20 years, Bureau Veritas has specialized in the control of VOC emissions, steam and refrigeration fluid leak control on industrial sites.

Its engineers are recognized by the AFNOR* and CEN** commissions in particular.

Dedicated tools

Bureau Veritas has developed dedicated tools (e.g. GEF, GEP software) for analysing, monitoring and managing inspection campaigns on process and steam networks.

Multi-disciplinary qualified experts

Our experienced team of technicians combine multi-disciplinary areas of expertise (chemistry, thermics, mechanics, computing and project management), complete mastery of measuring techniques and the respective instruments.

A synergy of skills with the Bureau Veritas Group

Experts in Quality, Health, Safety and Environmental (QHSE) hazards, the Bureau Veritas Group can support you in an overall environmental (air quality, chemical hazards, exposure measurements, etc.) and industrial (hazard studies, modernisation plan for industrial installations, non-destructive testing, etc.) risk management process.

*French national organization for standardization

**European Committee for Standardization



Measure, check and control emissions from your industrial sites

Volatile Organic Compounds - Refrigeration fluids - Steam, etc.



Move Forward with Confidence

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**BUREAU
VERITAS**

Move Forward with Confidence



Bureau Veritas has specialized for the last 20 years in the control of emissions (Volatile Organic Compounds, refrigeration fluids, steam leaks, etc.) on European industrial sites.

With its experience and technical know-how, Bureau Veritas can support you in preventing atmospheric pollution risks, health risks and energy losses.

Fugitive emissions of Volatile Organic Compounds

Fugitive emissions of Volatile Organic Compounds (VOCs) are leaks which come out of devices such as valves, pumps, connections, compressors, etc. These emissions represent a hazard both for the environment and the personnel working on or near these installations.

Controlling them represents a considerable stake on the health, safety and environmental front by enabling, in particular, reductions of explosive atmospheres (ATEX) and toxic gas emissions (e.g. CMRs) and improvements to be made for the productivity of the installations.

Bureau Veritas carries out VOC fugitive emission control campaigns:

- Measuring and quantifying emissions on industrial sites: production unit, associated storage, connected installations;
- Advice on the reduction of fugitive emissions of VOCs (preventive maintenance, preparation for unit shutdowns, equipment qualifications, etc.).

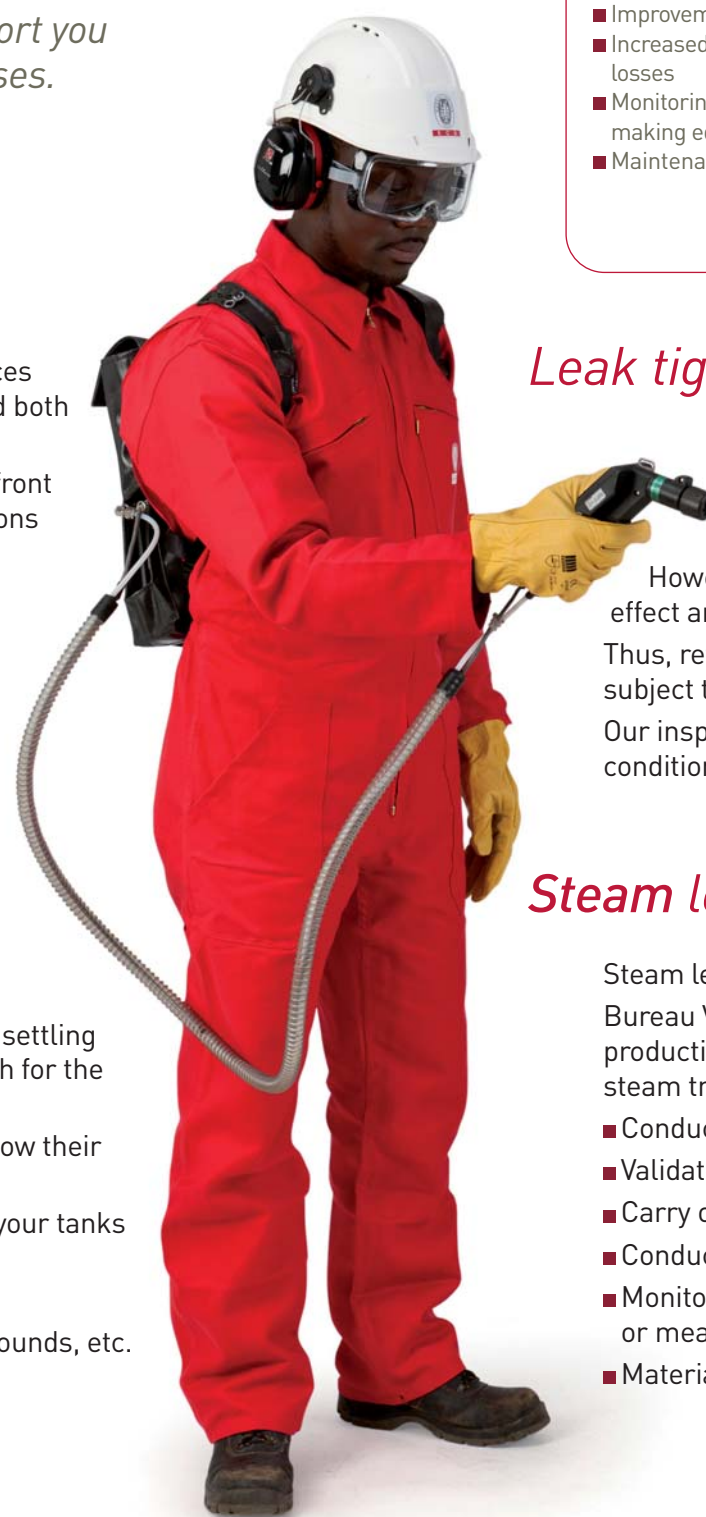
Surface emissions of Volatile Organic Compounds

Whatever the nature of the effluents stored in pools or tanks (stormwater retention basins, settling ponds, oil interceptors, sludge thickeners, etc.), their emissions can represent a hazard both for the environment and for the personnel working on or near these installations.

To prevent risks and put in place a suitable emission reduction system, it is necessary to know their volume and type.

Using a flow chamber, Bureau Veritas can offer you a study on the surface emissions from your tanks and pools suited to your requirements:

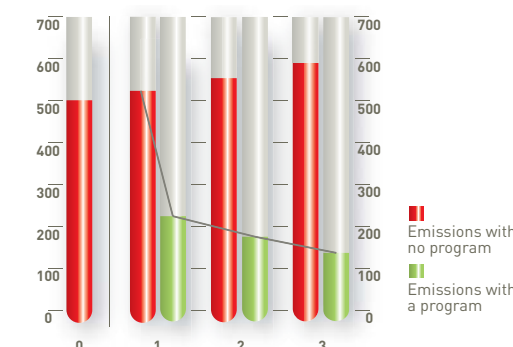
- Standard study: results provided for each pool in kg/year of total VOCs;
- In-depth study: results broken down into emissions per compound, search for CMR compounds, etc.



Benefits of a Leak Detection And Repair program

- Improvements in safety
- Improvements in the health conditions of personnel working on the site and the surrounding population
- Improvements in air quality
- Increased efficiency due to reductions in product losses
- Monitoring and optimization of actions aimed at making equipment more reliable
- Maintenance assistance

VOC emissions (in tons) per year



Leak tightness of equipment containing refrigeration fluids

Using their refrigeration properties, refrigeration fluids are in cold production systems (air conditioning, freezers, refrigerators, cold rooms, etc.).

However, when released into the atmosphere, they contribute to the greenhouse effect and depletion of the ozone layer.

Thus, refrigeration fluids in refrigeration and air conditioning equipment should be subject to regular leak controls.

Our inspectors are certified to carry out leak controls on your refrigeration and air conditioning equipment.

Steam leaks

Steam leaks from your equipment have a direct impact on your energy bill.

Bureau Veritas offers you expertise in the measurement and auditing of energy production, distribution and usage installations to detect steam leaks and check your steam traps:

- Conduct an audit of the installation
- Validate meter readings (flowmeters...)
- Carry out leak detection and repair campaigns on the steam network
- Conduct an audit, monitor and optimize the steam traps
- Monitor the performance of the installation and its equipment (analysis of site data or measurement campaign)
- Material and energy balances, production of dashboards