

> Environmental Noise and Vibration Management

Services to assess all areas of noise and vibration impact

BUSINESS CHALLENGE

Noise has a major impact on our day-to-day quality of life and mitigating its effects is a significant concern for all parties involved with planning, transport, environment and development.

Bureau Veritas Acoustics and Vibration specialist services are employed for new and existing developments across a breadth of industries, in particular **Commercial, Industrial, Residential, and Transportation Development, and Construction, Demolition, Quarrying, and Mining** Activities, providing prediction and evaluation of noise for planning authorities, architects and developers.

According to Countries, certain industrial activities or developments are required to assess their environmental impacts before they are granted consent from National Authorities. In European Countries, for instance, **Environmental Impact Assessment** is dealt with by European Directive 85/337/EEC as amended by 97/11/EC.



SOLUTION

What are the specialist services offered by Bureau Veritas for Environmental Noise and Vibration Management?

- Detailed measurement and noise monitoring services;
- Computer modelling of noise impact incorporating detailed environmental factors and providing in accordance with industry standards;
- Presentation of results of assessment in a clear and precise manner;
- Engineering design advice, on the modification of existing plant to reduce noise levels and to ensure that the noise and vibration emission from a proposed new or modified/existing plant complies with appropriate limits;
- Auditing of independent traffic noise calculations for third parties and consultants;
- Assessment of Noise Insulation for properties and proposals;
- Management of Construction site noise and vibration;
- Evaluation of Development Plans for housing or industrial initiatives;
- Liaison and negotiation with regulatory bodies regarding noise and vibration limits and planning conditions;
- Expert witness representation at public inquiries and appeals, preparation of proofs of evidence;
- Environmental auditing of overall company philosophy, approach and procedures relating to noise and vibration issues.



**BUREAU
VERITAS**

For the benefit of business and people

What are the key benefits?

- Demonstrate compliance;
- Identify and limit risk;
- Minimise financial liabilities;
- Minimise time detracted from core business;
- Maintain business efficiency;
- Reduced insurance costs;
- Enhanced employee perception as a proactive and caring employer;
- Enhanced business image, to visitors, clients, and customers;
- Have a clear vision and control your environmental liabilities;
- Ensure that potential risks are identified.

WHY CHOOSE BUREAU VERITAS?

Recognition

Founded in 1828, Bureau Veritas is a worldwide leader specialised in QHSE & SR services. Certified to ISO 9001 for all of its activities throughout the world, the company actively participates with professional authorities for the development of international standards and regulations.

For Acoustics and Vibration services, Bureau Veritas relies on a specialist division based in U.K., having an enviable track record in the assessment and control of industrial noise, and particularly extensive experience in the oil & gas, chemical, power generation and pharmaceutical industries.

Network

With more than 700 offices in 140 countries, and over 26,000 employees, Bureau Veritas is uniquely placed to supply its 280,000 customers worldwide. Acoustics and Vibration specialist division employs over 35 acoustic consultants and engineers, who have worked on projects throughout the world, including Europe, the Middle and Far East.

In addition to our noise and vibration monitoring services, Bureau Veritas can provide laboratory services and a complete portfolio of environment-related services including Air Quality, Land and Water Quality, Landscape, Ecology and Environmental Management.

Expertise

Some of Bureau Veritas' Acoustics and Vibration engineers and consultants have over 30 years experience in the field of noise and vibration. All hold professional membership of the Institute of Acoustics and a significant number are Chartered Engineers. Our team includes registered Expert Witnesses.

Personalised Services

Bureau Veritas recognises the different requirements of its clients and adapts its services, including Acoustics and Vibration related ones. Experienced Project Managers will design for you tailor-made solutions through a thorough appraisal of your needs, balanced against your operational and budgetary constraints. From this a step by step "road map" to compliance is devised to ensure all regulatory requirements are considered.

FAQ

Q. What does computer modelling offer me as a client?

A. Computer modelling can provide a very visual representation of noise impacts. The model once built, provides a quick and easy means to predict the impact of variations and to carry out "what if" analyses.

Q. Can vibration cause damage to buildings?

A. It can, although vibration levels will need to be high to cause even cosmetic damage to buildings, annoyance to occupants is likely to occur at much lower levels than building damage.

RELATED SERVICES

- Provision of acoustic design advice for residential and public buildings;
- Acoustic design review of industrial plant (at detailed design stage);
- Assessment of occupational noise exposure & specification of noise control;
- Assessment of occupational hand arm vibration and whole body vibration exposure as a result of the use of powered hand tools and mobile vehicles;
- Sound transmission and reverberation time testing of completed buildings;
- Acoustic design / specification / verification of the voice evacuation alarm and PA systems, specification of audio conference systems;
- Turnkey Noise and Vibration at Work management services;
- Complementary laboratory services.

CONTACT

for details about this service, please contact us
by phone: Acoustics & Vibration division (U.K.): +44 (0) 23 8024 2300
by e-mail: oilandgas@bureauveritas.com

FOR MORE INFORMATION

please visit:

www.bureauveritas.com