Bureau Veritas Services

BUREAU VERITAS

Move Forward with Confidence

ENVIRONMENTAL SIMULATION TESTING

Testing to Destruction to Aim at Perfection

BUSINESS CHALLENGE

Products failing to perform reliably in their intended working environment gain a high profile from time to time with television programs and newspaper reports frequently highlighting products which are unreliable in the field. Everyone experiences products that do not have the durability expected of them, generating a resolve not to make the same purchasing mistake twice. Brand reputations are won or lost through environmental performance, and performance costs. Manufacturers and retailers are now offering three- or five-year warranties, and there is a growing customer demand for 25 years' fault-free service in applications where access for maintenance and repair is difficult.

SOLUTION

What is Environmental Simulation Testing?

To remain competitive, as a manufacturer or as a retailer/importer sourcing private label products, you will be looking to extend your warranty terms and to ensure your products will function effectively over its expected life. The cost of the environmental testing necessary to support an extended warranty can be set against the cost of failures in the field and loss of reputation. And if you design in environmental requirements right at the product design stage, you stand a greater chance of a better product, faster to market, with much lower costs of design corrections. Our Environmental Simulation capabilities include:

- extremely high and low temperatures
- large, swift variations in temperature
- blowing and settling sand and dust
- salt spray and salt fog
- very high or low humidity
- wet environments
- fungus
- vibrations (airborne and structural)
- accelerations
- solar radiation
- high and low pressures (especially for aeronautical and space equipment)

What are the key benefits?

- Demonstrate by way of an independent test report to your clients and authorities that your product is compliant with Environmental requirements
- Reduce field failures
- Ensure the packaging you use is fit for purpose and your product will arrive in functional condition
- Environmental consultants can advise on designing environmental considerations into your future products
- Save on investing heavily in Environmental test equipment, calibration, accreditations and staffing by outsourcing to a global leader in compliance solutions

MARKET ACCESS COMPLIANCE SERVICES

Testing
- EMC
- Electrical Safety
- Radio & Telecoms
- Environmental Simulation
- ATEX
- NEBS/FOC
- IT Interoperability
- Performance
- RoHS

Product Certification
- RoHS, IECQ, IECEX and IECEE CB Scheme for International Markets
- CE marking Notified Body
- NRTL/SCC/TCB for North America
- NF/GS for Europe
- CCC/BSMI/GOST-R for Asia
- Access to 150+ countries via International Approvals service

Technical Consultancy / Compliance Assistance
- Product Design
- Regulations Translation
- Technical File Compilation and Assessment
- International Approvals Management / Homologation (150+ countries)

Training
- Technical
- Compliance

Inspection, Audit & Assessment
- Social Accountability (SA8000) Audits
- Production & Shipment Inspections
- Factory Assessment
- Management System Certification

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WHY CHOOSE BUREAU VERITAS?

We provide environmental testing to verify your equipment can withstand the rigors of harsh environments, can operate and function in its intended operating environment and that the stresses of travel will not impact upon the product. We are also a leading provider of testing against the NEBS standards for telecoms equipment in USA.

Reputation - For over 100 years, we have worked successfully with leading electrical and electronic product manufacturers, importers, retailers and operators around the world to help them better manage risk and assure regulatory compliance. Our Environmental test reports also act as the basis of market entry worldwide.

Worldwide Locations - With Environmental test centers and experts close to sourcing areas in countries worldwide, we offer you the convenience of global coverage with local service where you need it.

Technical Knowledge & Leadership - Our staff participate in the development of international, industry and regulatory standards worldwide, keeping you and us at the forefront of changes in Environmental requirements and testing methods. Our flexible team of consultants and engineers are also experienced in offering design and debug advice for your product, should you encounter any Environmental issues or failures, ensuring your project and release date stays on track. Our vast range of the chambers and open area test sites also helps ensure that no matter where you are, you can rely on Bureau Veritas.

Personalized Service - At Bureau Veritas, we are committed to meeting your evolving needs and helping you anticipate new market trends. We offer you customized and specialized services to meet your Environmental assurance needs throughout your supply chain. Providing you with the highest levels of service is a priority for us.

FREQUENTLY ASKED QUESTIONS

What's the difference between mechanical testing and climatic testing?

Mechanical testing focuses on the mechanical force inputs to a piece of equipment simulating the effects of everyday wear and tear or operation as well as stresses induced by a crash or shipping shocks and bumps for example. Climatic testing simulates natural environments, sometimes together with motion to better replicate real life. Examples include ice, water, sand & dust, temperature, altitude, humidity, salt fog, etc….

What is temperature or thermal testing?

A test in which the air surrounding the equipment under test is raised and/or lowered to pre-determined levels to identify the effect of the temperature extremes on the equipment, which may be operating or non-operating. Temperature extremes and rapid temperature transitions are also used to purposely induce failures to determine weak points or latent defects.

OUR APPROACH

Complying with customers' expectations is a critical issue when looking to launch your product on the global marketplace. Understanding the myriad of regulations and client requirements that affect your product in your target market is key to this success. Our testing process begins with understanding the product from your point-of-view; where will the product be marketed, who will use the product, what are your performance, quality and reliability expectations?

The answers help us to identify the regulatory barriers and to develop a rationalized Environmental Test plan for your product in your target markets, saving you from retesting for each market you will be selling into. Consequently, the appropriate testing is performed so you can sell, manufacture, or distribute your product anywhere in the world (in your target countries) with confidence. Our engineers will also help fix any product failures we may encounter during testing; ensuring your market release date is met and your customers' expectations are surpassed.

CONTACT

For further details, please contact **Bureau Veritas Electrical and Electronic Product Services**:
Americas: sales@curtis-straus.com (+1 978 486 8880)
China: emilie.tong@cn.bureauveritas.com (+86 21 6605 8286)
France: contact@lcie.fr (+33 1 40 95 60 60)
Germany: info@innova-ps.de (+49 8341 96660 0)
Hong Kong: bvcps.electrical@hk.bureauveritas.com (+852 2494 4676)
Taiwan: service@adt.com.tw (+886 3 318 3232)
UK: electrical@uk.bureauveritas.com (+44 161 928 8924)

FOR MORE INFORMATION
please visit:
www.bureauveritas.com