Bureau Veritas Services

BUREAU VERITAS

Move Forward with Confidence

Electrical Safety Testing and Certification

Your Local Partner for Access to Global Markets

BUSINESS CHALLENGE

Products come and go, but manufacturers and retailers that want a shelf life beyond the next Christmas season must sell safe products. Brand image and reputation carefully nurtured for years can be tainted in an instant. A large recall or liability for customer injury can wipe out in a single loss many of a merchant's smart plays.

There are numerous measures that need to be considered by Electrical and Electronic product suppliers:

- **Vendor selection**: The first line of defense is a shared vision of a long-term buyer/vendor relationship. With continuity of the relationship and future business at stake, vendors have strong incentives to design safe products and avoid cutting corners.
- **Third-party certification**: The second line of defense is the third-party product safety certification. An independent third-party expert in safety scrutinizes prototype design or early production samples, and screens out significant errors that even the most diligent design houses miss. Certification schemes also include some factory surveillance, which is generally implemented through quarterly visual inspections to catch design drift.
- **Compliance with sourcing and performance specifications (protocols)**: Production samples reviewed against a sourcing or performance specification by a third-party frequently catch variations from the original certification samples.

SOLUTION

What is Safety Testing and Certification?

To achieve electrical safety certification, three key steps have to be complied with.

- Firstly, the product is tested against recognized safety standards for criteria such as electric shock, excessive temperature, radiation, implosion, mechanical hazards and fire.
- Secondly, a technical file (including factory inspection report) is complied and then assessed by the certification body. Assuming all is in line with relevant requirements, certification is granted and the associated mark may be used on the product, packaging, commercial materials, etc…
- Following successful certification, the manufacturing facility is regularly inspected to ensure continuity of production quality.

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

What are the key benefits?

- Demonstrate by way of an independent test report to your clients and authorities that your product is compliant
- Safety consultants can advise on designing compliance into your future products
- Save on investing heavily in Safety test equipment, calibration, accreditations and staffing by outsourcing to a global leader in compliance solutions.

Move Forward with Confidence

WHY CHOOSE BUREAU VERITAS?

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 Safety test reports also act as the basis of market entry worldwide.

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

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 Safety 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 Safety issues or failures, ensuring your project and release date stays on track. Our expert engineers can also perform Safety testing and assessments at your premises, particularly useful for large and fixed installations.

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 Safety needs throughout your supply chain. Providing you with the highest levels of service is a priority for us.

OUR APPROACH

Complying with Safety regulations is a critical issue when looking to launch your product on the global marketplace. Understanding the myriad of regulations that affect your product in your target market is key to this success. Our compliance 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 quality expectations?

The answers help us to identify the regulatory barriers and to develop a rationalized Safety Compliance plan for your product in your target markets, saving you from retesting for each market you will be selling into. Consequently, the appropriate testing and certification 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 Safety issues we may encounter during testing; ensuring your market release date is met.

Bureau Veritas has successfully delivered safety certification for electrical and electronic products covering most countries of the world, some of the most popular certification schemes being the IECEE CB Scheme, CE marking, GS for Germany, NF for France, USA/Canada certification, the CCC Scheme for China, BSMI for Taiwan and GOST-R for Russia.

FREQUENTLY ASKED QUESTIONS

What alternatives to lab based testing exist?

Testing at Manufacturer's Premises (TMP) - Used for CE marking purposes, but can also be used as the basis for CB and other forms of Product Certification.

Witness Manufacturer's Testing (WMT) - This assumes the manufacturer has the relevant equipment and approval. Again, this scheme can be used for all types of CE marking, CB and Product certification. The manufacturer's laboratory and staff is audited in accordance with ISO/IEC 17025.

Acceptance of Client's Testing (ACT) - Of particular use to manufacturers with an established and mature safety test laboratory process and staff. Used for all forms of product certification. Test reports are written by the manufacturer's own test staff. The manufacturer's laboratory and staff is audited in accordance with ISO/IEC 17025.

Supervised Manufacturer's Testing (SMT) - One of the most versatile schemes. Testing is performed by the manufacturer with their own test equipment in their laboratory. The test reports are compiled by the manufacturer and are then reviewed and approved, if satisfactory, by the test laboratory. The manufacturer's laboratory must operate independently from other departments, with no staff having perceived, or actual, conflicts of interest within the organization.

CONTACT

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