



ELECTRICAL SAFETY TESTING/CERTIFICATION

CBTL / NRTL: USA/CANADA ACCESS

THE CHALLENGE

Products come and go, and manufacturers and retailers who want a shelf life beyond the next holiday season must sell safe products. Brand image and reputation that have been carefully nurtured for years can be tainted in an instant. A large recall or a customer injury suit can wipe out in one stroke a multitude of merchant smart plays. To avoid such a crisis, there are numerous measures to consider:

- **Vendor Selection:** When there is a sense of a continuing partnership and potential future business at stake, vendors have a strong incentive to design safe products.
- **Third-party Certification:** This involves a highly experienced independent third-party to scrutinize prototype designs or early production samples, and screen out significant errors that even the most diligent design houses may miss. Certification schemes also include some factory surveillance and can include witness testing at manufacturer's facilities.
- **Compliance with Performance Specifications (protocols):** Reviewing production samples can detect any variation from the original certification samples..



Move Forward with Confidence

**BUREAU
VERITAS**

CERTIFICATION APPROACH

SCALE & SPEED

- Product is tested against recognized safety standards for criteria such as:
 - Electric shock
 - Excessive temperature
 - Radiation
 - Implosion
 - Mechanical hazards and
 - Fire.
- Technical file (including factory inspection report) is compiled 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.



VALUE OF BV NRTL SOLUTION

- Fast turnaround time. It only takes **5** days for certification
- Very **attractive pricing**
- **Recognition.** Bureau Veritas Listed Mark is well-known to **U.S. retailers**
- **2** inspections per year
- **0** recall history

TESTING SERVICES

- **Bureau Veritas Lab Testing:** Bureau Veritas has Electrical Safety Test labs on the West & East coast of USA as well as facilities in France, Germany, UK, India, China, Hong Kong, Taiwan and Korea
- **Testing at Manufacturer's Premises (TMP):** The tests are performed by Bureau Veritas staff using the testing facilities of the manufacturer.
- **Witness Manufacturer's Testing (WMT):** The tests are 100% supervised by the Bureau Veritas staff and are performed by the manufacturer's laboratory staff, using their own testing facilities.
- **Supervised Manufacturer's Testing (SMT):** The tests are partially supervised by Bureau Veritas staff and are performed by the manufacturer's laboratory staff, using their own testing facilities.
- **Related Testing Services:**
 - **Connectivity Testing:** Bluetooth, WiFi, DSRC, CBRS, LoRa, SigFox, Thread, Zigbee, EMVCo/Visa
 - **Performance Testing:** Reliability, Antenna (OTA), Energy Use, Environmental Performance, Life Simulation
 - **Safety/Security/Regulatory Testing:** EMC/RF, SAR, Cybersecurity, Chemical Safety, ...

OUR VALUE

- **Network:** Strong Americas Footprint & Global Network
- **Scale:** 1,000+ highly skilled personnel | 400+ test environments worldwide. 200 personnel in USA.
- **Reputation:** 100+ accreditations / recognitions | Competent in all key wireless technologies & regulatory requirements for 200+ territories
- **Segment Leadership:** Address all key technology markets (Electrical/Electronics, Automotive & Wireless) with active participation in all key technical / industry working groups
- **Complete Service:** Conformance, Performance and Regulatory, Smart Payment & Cybersecurity. Fast Access to 200 Countries/Territories