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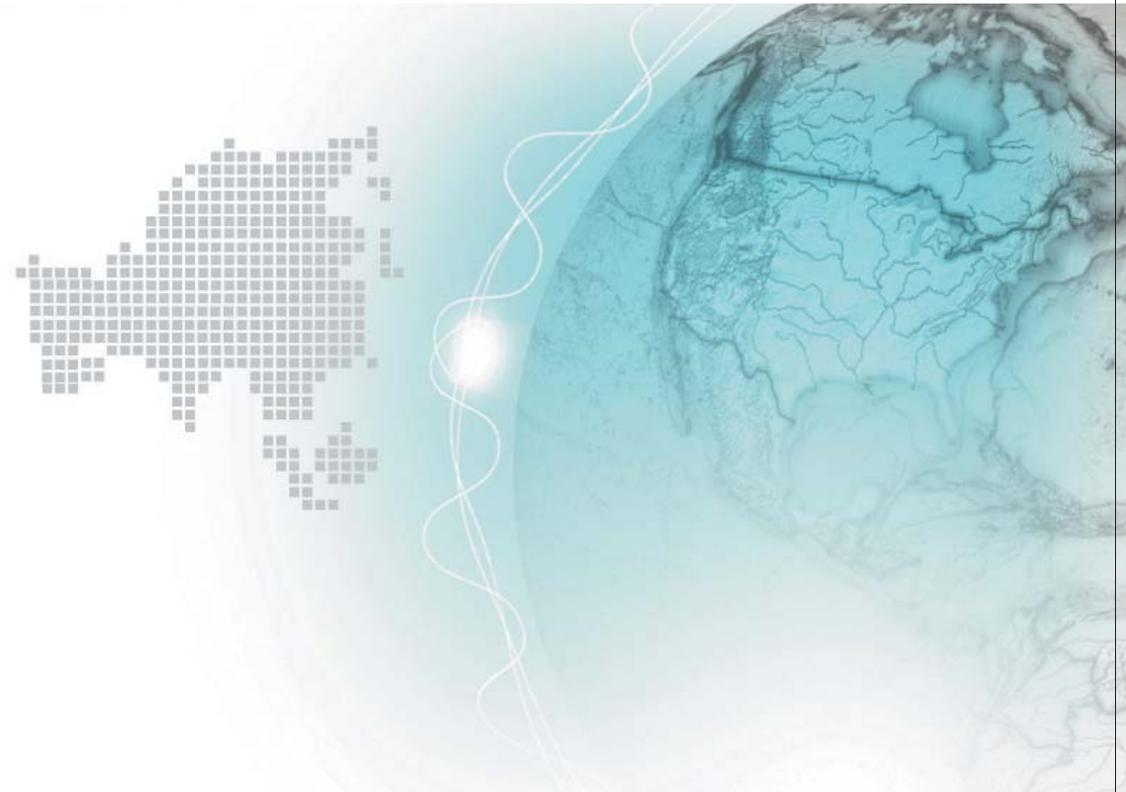
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Global Market Access Program



Forward

In today's global marketplace, the products you manufacture, distribute or retail are subject to numerous product safety standards and industry requirements. In most markets, conformity to local requirements is mandatory before your products can be sold. In other instances it can be a powerful marketing tool that helps build confidence throughout distribution and end-user channels.

Following the integration of The European Union (EU) and the promotion of the WTO (World Trade Organization), it is widely supported and highly desired by countries worldwide to establish a certification of compliance program as well as mutual recognition agreement. Many countries in Asia, such as China, Japan, Korea and Taiwan have begun to establish a certification of compliance scheme in order to achieve the ultimate objective of obstacle-free fair world trade. Certification marks are evidence to your customers that your product conforms to applicable standards of all those export countries and that there is a program of ongoing factory inspections.

For more than 100 years Intertek Commercial & Electrical division has guided its clients through the challenging certification process, making it faster, simpler and more efficient. Now, Intertek published this booklet, which will enable manufactures and international buyers a better understanding of the safety certification regulations and environmental protection laws of respective countries all over the world.

Global Market Access (GMA) is a library of compliance and market-entry data for over 30 regions across six continents. GMA was designed to inform you of the changing global requirements affecting product design & development, and market entry. You can also visit our website:
<http://www.global.etlsemko.com/marketaccess/>

Disclaimer

Intertek has made all reasonable efforts to ensure the accuracy of the information. However, the information provided should not be relied upon as legal advice or regarded as a substitute for legal advice. The reader should exercise his/her own care and judgement before relying on this information in any important matter.

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CB Scheme

Introduction

The IEC's CB Scheme is an international program for the exchange and acceptance of product safety test results among participating laboratories and certification organizations around the world. Most electrical and electronic equipment must have product safety registration or certification for each country in which it is offered for sale. Historically, obtaining the necessary national product certifications has been difficult, time-consuming, and expensive. This is no longer the case. The CB Scheme is now a convenient process for mutual recognition of test results between participating countries, normally without the need for additional testing.

The CB Scheme offers manufacturers a simplified way of obtaining multiple national safety certifications for their products — providing entry into over 40 countries. They include:

Argentina	France	Mexico	Slovenia
Australia	Germany	Netherlands	South Africa
Austria	Greece	New Zealand	Spain
Belarus	Hungary	Norway	Sweden
Belgium	India	Pol and	Switzerland
Brazil	Ireland	Portugal	Thailand
Canada	Israel	Romania	Turkey
China	Italy	Russian Federation	Ukraine
Czech Republic	Japan	Serbia and Montenegro	United Kingdom
Denmark	Republic of Korea	Singapore	USA
Finland	Malaysia	Slovakia	

Structure

Product/s need to have common test standards among members before being accepted by the CB Scheme. Currently CB Scheme covers electronic gaming devices, test equipment, power supply cable and wire, capacitor and components, lighting, home appliance, protection equipment, transformer, office and IT equipment, medical devices, etc. Totally 180 products under 14 categories. CB Test Lab (CBTL) is a test lab accepted by CB Scheme. It performs product test and issue test report authorized by specific National Certify Body (NCB). Manufacturers can apply a CB report and certificate from any country's NCB and then transfer to another country's safety certificate through CB Scheme's NCB in that country.

Benefit

By significantly reducing duplicate testing for multiple markets, the CB Scheme provides substantial advantages:

Speed: Accelerated international product acceptance – faster product movement from factory to market

Efficiency: CB Scheme rules stipulate handling of applications on a priority basis

Savings: Significantly reduced workload, reduced testing, and fewer product samples subjected to possible damage or destruction

Convenience: One-stop complete local testing for worldwide safety compliance

How the CB Scheme works

International acceptance of electrical and electronic equipment product safety test results is the basis of the CB Scheme. Upon successful completion of testing, a CB Test Certificate and a corresponding CB Test Report is issued for the product. Together these two documents become the passport with which a manufacturer is able to apply for national certifications from any National Certification Body in any of the participating countries, usually without additional testing. However, in most countries, factory inspection is required as a prerequisite for obtaining national certification/approval.

Throughout our global network, Intertek provides three National Certification Bodies (NCB) for the CB Scheme process, and numerous CB Testing Laboratories (CBTL). With a CB Test Report from CBTL and a corresponding CB Certificate from an NCB, you may obtain multiple national safety certifications for your products. To obtain a national certification without additional testing, you must submit your CB Certificate and Test Report to an NCB in a participating CB Scheme country.

ETL Mark

Introduction

ETL certification mark is for products going to US and Canadian markets. The ETL mark means the product has fulfilled the safety requirements through testing under US's NRTL program and/or accredited by Canada's SCC. Intertek ETL SEMKO is one of the few certification bodies simultaneously accredited by OSHA and SCC. ETL mark has being fully recognized by US Authorities with the equivalence as UL or CSA marks. A product bearing the ETL Listed Mark is determined to have met the minimum requirements of prescribed product safety standards. Moreover, the mark indicates that the manufacturer's production site conforms to a range of compliance measures and is subject to periodic follow-up inspections to verify continued conformance.

In fact, "ETL" has been around over 100 years. When manufacturers apply Intertek's proprietary ETL Listed Mark to their products, the letters "ETL" carry with them a long history of innovation, influence, and independence for product testing, with the original Electrical Testing Labs (ETL) founded by Thomas Alva Edison in 1896.

Marking



Certification

- Intertek ETL SEMKO provide ETLus mark for US market
- Intertek ETL SEMKO provide cETL mark for Canadian market
- CETLus mark is good for both US and Canada markets

Factory inspection

4 times per years for ETLus, twice per year for cETL. 4 times per year if product has both.

Rules

- Laser equipment may need to meet FDA requirements

S Mark - European Safety Mark

Introduction

The S Mark is a symbol of electrical safety for your customers and evidence to authorities that Intertek's ETL SEMKO division has independently tested and certified your product's compliance to applicable European safety requirements. Intertek exclusively provides the S Mark – a recognized symbol of safety since 1926.

With the S Mark, your product may be sold throughout the EU without further safety testing or certification. As a European safety mark, the S Mark communicates to over 450 million people that your products are safe.

S mark covers more than 25 European countries regulation and is registered in and recognized by all European countries. Through a mutual agreement among Scandinavia countries, S mark can easily transfer to Denmark, Finland or Norway's safety mark through Intertek ETL SEMKO. Products with the S mark means it complies with European standard and to the EU low voltage requirement. The S mark is a strong supplement to the CE mark regarding product safety and quality

Marking



Certification

Intertek provides the S mark to products selling to European markets. S mark is registered in 18 countries and provides English, German, Swedish, Italian and French and associated language mark design.

Factory inspection

Once a year .

GS Mark

Introduction

GS (Geprüfte Sicherheit) means "safety tested" in German. The GS Mark, although it is a strictly voluntary complement to the CE marking, is highly regarded by German consumers and manufacturers alike. In Germany the GS mark is a major factor for consumers when choosing electrical and electronics products. With the mark, the product is considered more reliable since it has been approved by an independent certification body.

The GS Mark is a licensed mark of the German government and may only be issued by an accredited product safety testing and certification agency. It was established based on German safety regulation GPSG. The authority agent is ZLS.

Marking



Certification

A GS mark issued by Intertek will carry its "S Mark" identifier above the mark.

Factory inspection

Once a year

Rules

- Need to provide German user manual.
- Home appliance has direct contact with food will need LMBG certification.
- EN 50366 is needed for Home appliance before get CE(LVD) or GS Certification.
- Ergo test is needed for visual related equipment.

BEAB Mark for UK

Introduction

BEAB is a leading body for the approval of domestic electrotechnical products in the UK. It was formed in 1960 as an independent national safety approval authority and has established a reputation for quality and integrity. The BEAB mark is widely recognised in the UK as well as other countries around the world. Now, Intertek can provide manufacturers with this service to help get products into the UK market. No need to search around in the UK, BEAB certification can be found locally.

Marking



Factory inspection

Once a year .

Rules

- Both safety & and EMC testing are required
- On-going surveillance for the product's lifetime, including monitoring for any product modifications and the investigation of complaints.

EMC Mark

Introduction

This certification mark is a visual confirmation that your labeled product complies with appropriate EMC standards for the countries or regions listed on the label.

The Intertek Worldwide EMC Mark is not a substitute for required markings such as FCC Part 15 notification or the CE Marking for the European Union (EU). It does, however, provide a graphical indication of EMC compliance to buyers and Authorities Having Jurisdiction – one that is visible on the product or its packaging rather than in a detailed testing report.

Marking



Factory inspection

Once a year

Rules

- Certification fee does not vary with the number of countries named on the label: it can contain as many or as few as you choose from the compliant list.

ERGO Mark

Introduction

ERGO Mark can show product compliance for corresponding ergonomic standards. The ergonomic requirements primarily concerns the safety and health of employees. Intertek provide this services for mainly IT equipments. Most common products are FPD(Flat Panel Displays), desktop PC, notebooks, pocket PC, CRT(Cathode Ray Tube) monitors, computer mouse, keyboard products. Certification to these requirements provides manufacturers with a means of demonstrating superior product quality and attention to ergonomics.

Marking



Factory inspection

Once a year (CIG023)

Validity period of certificate

Maximum 5 years depending on annual fee

European Union CE marking

EU Member Countries:

Austria	Latvia
Belgium	Lithuania
Bulgaria (member 1/1/2007)	Luxembourg
Cyprus	Malta
Czech Republic	Poland
Denmark	Portugal
Estonia	Romania (member 1/1/2007)
Finland	Slovakia
France	Slovenia
Germany	Spain
Greece	Sweden
Hungary	The Netherlands
Ireland	United Kingdom
Italy	

EEA Member Countries

Iceland, Liechtenstein, Norway and Switzerland (although not part of the European Union, they have a relationship with the EU through the Agreement of the European Economic Area (EEA), which enables participation in the EU Single Market).

Introduction

Before products can be placed on the European market, they must meet the requirements of the relevant product directives. Directives are joint rules that have been put in place to simplify trade to and between the member countries of the European Union (EU). Many safety-related directives require that products bear the CE Mark before it is placed on the European Market. In order to protect consumers and workers' health and environment and to make sure all products are safe with good quality, EU has established a series of new CE directives. Before the CE Mark may be affixed to a product and legally sold within the European Union, the manufacturer or exporter must complete the following:

- Prepare Technical Documentation (Technical File) to show the product's compliance with applicable essential requirements and conformity assessment procedures of the applicable device directive.
- Prepare a "declaration of conformity" which means that you, as a manufacturer, declare that your product fulfills the requirements of the applicable directive.
- According to some directives you must also receive a product-specific CE marking certificate from a Notified Body.

Directives

Intertek has helped countless manufacturers meet the CE Mark requirements and gain market access into the European Union. We have the product expertise and full capability to test to a variety of directives including:

- Low Voltage 73/23/EEC
- Toy Safety 88/378/EEC
- Medical Devices 93/42/EEC
- Radio and Telecommunication Terminal Equipment 1999/5/EC
- Electromagnetic Compatibility 89/336/EEC
- Machinery 98/37/EC
- Auto-motive 95/54/EC

Marking



Technical Information

- 230V (Single Phase)
- 50Hz

Factory inspection

- Voluntary factory inspection according to CENELEC

Rules

- Language – Each country's language
- There are 5 different plugs within the European Union.

RoHS for Europe

Introduction

In order to prevent soil and ground water contamination caused by dumping of waste electrical and electronic equipment (WEEE) and to be sure those waste EEE can be recycle and re-use safely without causing secondary pollution to the environment and damage to users, the RoHS (Restriction of the use of certain Hazardous Substances) directive set forth a threshold limit of certain hazardous substance to be used in EEE.

The RoHS Directive 2002/95/EC covers a similar range of EEE to the WEEE Directive, except that which categories:

- Includes filament light bulbs and household luminaries.
- Excludes medical devices as well as monitoring & control equipment

RoHS control items

Effective from 1st July 2006, new electrical and electronic equipment placed on the market shall not contain:

- Lead (Pb);
- Mercury (Hg);
- Cadmium (Cd);
- Hexavalent chromium (Cr6+);
- Certain brominated flame retardants (BFR's);
- Polybrominated biphenyls (PBB's); Polybrominated diphenyl ethers (PBDE's).

Compliance procedure

RoHS has a self declaration process. The directive itself does not state what is necessary but the EU enforcement guidance document gives directions on what is expected from an authority point of view. The following should be available:

- A step-by-step approach to RoHS compliance investigations:
 1. Initial self-declaration;
 2. More detailed assessment in those cases where evidence from producers does not assure compliance;
 3. In cases of concern, detailed sampling and testing
- Proposed enforcement process provides two initial routes to self-declaration:
 1. Initial provision of compliance documentation for homogeneous materials in products/parts
 2. Documentary evidence of more structured internal systems demonstrating a producer's ability to manage RoHS compliance

Intertek proposes the following actions:

1. Set-up an Auditable Environmental Product Compliance or Restricted Substances Compliance Management System
2. Build a Product Technical Compliance File
3. Execute Product Conformity Risk Assessments
4. If no issues have been found, issue a conformity report
5. Execute continuous education and training programs (weakest link is largest risk for non-compliance)

Intertek offers

- Full Compliance Management Solutions
- Product Certification Program
- Management Systems Certification Programs
- Risk Assessment of Products, Suppliers, etc.
- Testing, Analysis and physical characterisation
- Education and Consulting

Benefits of having your product Intertek RoHS certified:

- Product, Documentation and system has been independently reviewed and certified by a renowned third party
- Flexible approach with possibility to use other third party and/or clients documentation as basis for certification
- Reducing workload (time & cost saving)
- Reduced risk of being exposed to market surveillance
- Easier to show compliance to producers (trading your products)
- Marketing differentiator: builds an environmentally positive profile to end users/consumers

Marking



Factory inspection

Once a year

Validity period of certificate

Not applicable, annual factory inspection, which may include sampling to confirm compliance

WEEE for Europe

Introduction

WEEE directive means Waste Electrical & Electronic Equipment. Due to the rapid development of technology, the state-of -the-art electrical and electronic equipment (EEE) bring convenience and comfort to life but can have short lifespan. To dispose of the large volume of abandoned EEE it became an urgent issue of some developed countries and developing countries. For the sake of resource conservation and recovery as well as to treat the waste EEE, European Union issued two EEE related directives in 2002, they are WEEE and RoHS directive. Nowadays, environmental acts were issued around the world to limit the content of hazardous substance in EEE and request manufacturers and suppliers to take the responsibility of recycling.

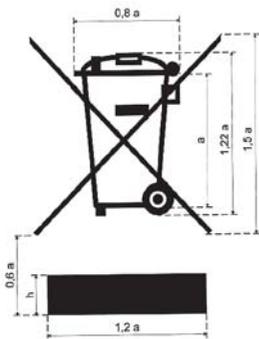
About WEEE

- Date of Declaration: Jan 27, 2003
- Number of Directive: 2002/96/EC
- Extended Directive: 2003/108/EC

Requirements

8/13/2004 European States WEEE legislation implemented. 8/13/2005 European States WEEE legislation comes into force. Sorting, collection of waste EEE, removal of certain materials and components and disposal of shall be conducted under licensed or registered facilities. Producers shall propose guarantee of finance for waste EEE collection, recycle, reuse or treatment.

Marking



WEEE shall be labeled with follows criteria: A. Name/trademark of the producer. B. Indicating that the EEE was placed on the market after 13 August 2005. C. Crossed wheelie bin symbol (see ex page) shall be attached to alert that the waste EEE should not be discarded with general waste.

Where a was proposed to have a minimum height of 3.33mm and Minimum height for the combined crossed wheelie bin/solid bar symbol shall be 7 mm.

WEEE Recycle Plan & Schedule

12/31/2006 European States targeting for collection of waste EEE of 4 kg/headcount/year. Targeting for the waste EEE recovery is between 70% and 80%, which including re-use and recycle of materials/components (between 50% and 75% based on the average weight per EEE).

12/31/2008 Higher recovery & recycling rate shall be set forth for waste EEE, including reuse or recycle of whole appliances.

Reach directive for Europe

Registration, Evaluation and Authorisation of Chemicals is a regulation covering 30,000 existing and all new chemicals. The registration and testing process will allow evaluation and documentation of the safety of these chemicals. And registration of existing chemicals will be phased over 11 years.

This directive builds on Existing Legislation re: HSE and Recycling and recovery

- Places **Responsibility on the Seller**
- Ensure Information is Available, to users, Regulators and the General public
- Parties affected include the full supply chain, including Manufacturers/Producers of Chemicals, Importers and Downstream users
- "Article means an object which during production is given a special shape, surface or design which determines its function to a greater degree than its chemical composition" (Article 3(3))
- Producers/importers of articles have under certain circumstances an obligation to submit information about certain substances in their articles to the Agency with the aim to register or notify
- Article producers may import substances on their own or in preparations for the production of their articles
- Article producer is also a substance importer and will have to make a REACH registration for substances imported in volumes > 1 ton/annum

EuP Directive for Europe

Energy-using Products (EuP) Directive published in the European Union official journal on the 22nd July 2005. Member States are supposed to transpose into national law by the 11th August 2007.

It creates a Framework for the integration of various environmental aspects into the design of Energy-using-Products (EuPs), such as:

- energy efficiency,
- hazardous substances,
- water consumption or noise emissions

Component and sub-assembly manufacturers may - under the implementing legislation - have to supply material composition and energy/material consumption data to the EuP producer

Product Coverage

- A product that uses electricity, fossil fuels or renewable energy sources during its use stage of the life cycle
- A product used for generation, transfer or measurement of energy
- Parts dependent on energy input supplied to end-users as individual parts, which can be assessed for environmental performance

Exemptions

- The EuP Directive does not apply to transportation vehicles for people or goods, e.g. cars, trucks, ships, aeroplanes and rail
- Defence equipment is not exempted

Energy Star® Program

Introduction

The objective of the Energy Star® Program is to promote energy efficient products to consumers, while educating them of the benefits in choosing energy efficient products. This program is a voluntary partnership of the U.S. Department of Energy (DOE), the U.S. Environmental Protection Agency (EPA), product manufacturers, local utilities, and retailers.

The Energy Star® Program has developed product specific testing guidelines that Compact Fluorescent Lamps (CFL) and Residential Fluorescent Lights (RFL) must comply with in order to carry the Energy Star® label. In addition, this testing must be performed by a NVLAP or A2LA accredited testing organization.

Intertek holds both NVLAP and A2LA accreditations and can test products to the requirements set forth in the Energy Star® Program. Intertek performs the required testing for this safety compliance specification in addition to the performance requirements of the Energy Star® Program.

Types of testing under the Energy Star® Program include:

- Luminary Output and Efficiency Measurements
- Rapid Cycle Stress Test
- Starting Time and Run-Up Time
- Measurements (CFL)
- EMI Testing per FCC Title 47-Part 18
- Transient Protection Testing
- Life Testing
- Luminary Depreciation Measurements (CFL)

Marking



Hong Kong ES Mark

Introduction

ES Mark stands for EMC and Safety Mark, which shows your product has complied with corresponding EMC and/or Safety Standards for Hong Kong market. ES Mark is a voluntary product certification program for electrical and electronics products.

To acquire the ES Mark, products would be normally tested according to the requirements of the latest published International Standards, preferably IEC standards and CISPR standards. EN/ BSEN, BS standards or equivalent International standards can also be used if the standards are acceptable in the Schedule 1 and Schedule 2 requirement of the Hong Kong regulation, or the standards approved by the ES Mark Certification Body.

Marking



Factory inspection

Once a year (CIG023)

Rules

- Monitoring Test for certified products will be conducted every 3 years
- ES Mark File Number (Esnnnnn) should be displayed below the mark

System Certification Mark

Intertek Systems Certification is the management systems registration business unit of Intertek. We have worked to develop the most comprehensive and innovative programs in the industry for management systems certification. Thousands of clients all over the world have experienced the benefits of our expertise and our reputation for accuracy, integrity and confidentiality:

Marking



Or series of similar mark with type of certificate, e.g. ISO 9001, indicated inside

System Certification Services includes:

- ISO 9001 certification
- ISO 14001 certification
- AS9100 Series certification
- ISO/TS 16949 certification
- OHSAS 18001 conformity
- ISO 22000 (HACCP) conformity
- TL 9000 certification
- ISO 20000 certification
- ISO 27001 certification
- QC 080000 conformity
- Services for the Medical Sector

Warnock Hersey Mark for US & Canada

Building and construction materials bearing the WH Mark indicate to your customers and end-users product compliance to relevant building codes, association criteria, and product safety and performance standards. The mark also signifies that the product's manufacturing site(s) undergo periodic follow up inspections to ensure ongoing compliance of the originally certified product. In short, a field inspection consists of line sampling and inspection to ensure that the product continues to be produced in the same manner as the product which was originally certified.

Marking



Certification

- Intertek ETL SEMKO provide ETLus mark for US market
- Intertek ETL SEMKO provide cETL mark for Canadian market
- cETLus mark is good for both US and Canada markets

Factory inspection

4 times per year for ETLus, twice per year for cETL. 4 times per year if product has both.

Argentina Safety Certification Program

Introduction

The Argentina Certification System established in accordance with the Resolution 92/98 promulgated on 1998, is to regulate all the electrical products with rated voltage under 1000Vac or 1500 Vdc but operate below 5 KVA and 63 A to comply with all of the requirements stipulated in IRAM or IEC standards.

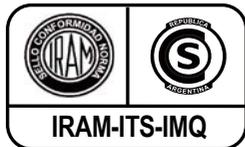
To improve its standing to better serve customers, Intertek signed an agreement with IRAM on March 1999, which is the most professional and powerful Certified Body in Argentina. This agreement was quickly followed with the establishment of a joint venture company between Intertek, IRAM and IMQ to create a new certification body to provide direct certification to Intertek customers world-wide. The mutual recognition agreement and joint venture were overwhelming steps that not only shorten the operational time but also simplify the certification process, which allow applicants to quickly access their IRAM certificate with no additional sample required.

The Argentina authority modified the certification system by end of 2004 and published Resolution 197/2004 to get the program comes into force. Applicants may apply either certificate prescribed below:

- (a) Mark Certification (Also called Safety Mark certification)
- (b) Type certification
- (c) Lot certification

Marking

- (a) Mark certification (Safety Mark certification)



- (b) Type certification



Cert N°

- (c) Lot certification



Lote N°
Cert N°

Technical information

1. Voltage: 220V, 50 Hz.
2. IRAM and IEC standards are applicable.
3. Plugs and power cord set must be IRAM certified. Domestic plug is classified into Class II and Class I in Argentina. Certificate of compliance for class I plug according to IRAM2073, and class II to IRAM2063 are required.

Factory inspection

- Apply for IRAM safety mark certificate requires, initial and annual follow-up factory inspection, unless CIG 023 report is submitted.
- It is not applicable for either type certificate or lot certificate.

Validity period of certificate

Not applicable, but a reduced test and regular periodic factory inspection will undergo in accordance with the specific format to ensure the certificate validated.

Rules

- Series model for the application is acceptable.
- For type certification, a reduced in-country test would be performed by recognized Argentina laboratories every six months. The first verification must be performed within 90 days of the type certificate being issued.
- For Mark certification, the in-country reduced test is required annually.

Australia approval: C-Tick, A-tick, RCM and OFT

Introduction

NATA (National Association of Testing Authorities, Australia) and OFT (Office of Fair Trading in New South Wales – initials NSW) accept test reports such as CCA, CB or even general report (with sub-clause listed) issued by Intertek. Applicants who have a test report issued by Intertek, a laboratory approved by NATA and DFT are applicable to make Declaration of Compliance of ACMA (The Australian Communications Authority) as well as to acquire OFT approval. The ACMA regulates the Australian communications industry to ensure a diverse range of EMI, RF and telecommunications equipment to meet the safety and technical standards set by the Authority.

C-Tick, a compliance mark in Australia regulates those products covered EMI and RF characters and is used on products connected with a EMC and RF standards. Whereas, products connected with a telecommunications network need the A-Tick compliance mark. Both marks are registered to the ACMA and applicable for Self Declaration Of Compliance. Australian supplier simply makes declaration of compliance to A-tick and C-tick in accordance with approved test reports.

Only prescribed electrical appliances are regulated to meet safety requirement. Safety test reports issued by Intertek are accepted for DOFT approval. Samples delivered to Australia for additional tests are not required.

In addition to the OFT certification, the Regulatory Compliance Mark (RCM) is an alternative symbol owned by Australian and New Zealand for safety and EMC compliance. Australian suppliers needs to make declaration of compliance of RCM in accordance with NATA-approved test reports.

Marking

DOFT: not applicable, only certification number shall be indicated above C-tick mark C-tick: Australian supplier registration code shall be indicated.



A-tick: Australian supplier registration code shall be indicated.



RCM: Australian supplier registration code shall be indicated.



Technical information

- Voltage: 240V, Frequency: 50Hz
- Power supply plug shall be certified against Australia Standard AS/NZS 3112
- Factory inspection: not applicable

Validity period of certificate

- C-tick and A-tick: Self Declaration of Compliance, no validity period is applicable.
- RCM: Validity is generally for five (5) years with equivalence of Safety certificate.
- DOFT: certificate is valid for five (5) years.

Rules

- With effect from April 2005, an additional mandatory test to insulated plug is enforced. Intertek is a recognized laboratory to perform the testing, thus sample delivery to Australia for tests are not required

Belarus Safety Certification Scheme: STB

Introduction

To accommodate customers' needs to provide consistent service, other than the previous contract signed with BelGISS, a certification body in Belarus, Intertek signed a Mutual Recognition Agreement with BELLIS in November 2004. This was to perform the specified tests in Taiwan, a significant plus to enable its customers additional selection to rapidly access the Belarus market.

In addition to the requirement of compliance for standards related to Safety and EMC tests, Hygienic certificate is required for the some electrical equipments with specific characteristics. With Intertek's prominent service, no sample is required, which assists applicants acquire Hygienic certificate in the most efficient and cost effective way.

Marking



Certification Laboratory Number shall be indicated under the illustration of the safety certification mark (see illustration above)

Technical information

Voltage: AC 230A. Frequency: 50 Hz

Factory inspection

Applicable; CIG023 reports issued by specific certification bodies are acceptable.

Validity period of certificate

Certificate is valid for 3 Years.

Rules

- Hygienic certificate regulates a wider range of manufactured products scope than other countries; please consult with Intertek for Hygienic application.
- Hygienic test reports issued by Intertek are accepted by Belarus. Sending samples to Belarus for local tests are not required.

Brazil

Introduction

INMETRO is the official Brazilian Accreditation Board. It is a governmental agency and responsible to rule all certification process in Brazil. The Institute of Brazilian Certifications (ICBr) was established in March of 2005 and accredited by INMETRO to perform certification services. The safety approval process must be done through an OCP (ICBr), Product Certification Organism, who will define the manufacturing inspection requirements, laboratory testing and documentation requirements.

The Brazilian Approval Authority for telecom is ANATEL. The process for domestic and foreign products must be done through an OCD (IBRACE), Designated Certification Organism, of ANATEL, who will define the documents and test according to the product category and test requirements defined by ANATEL

Marking

If approved a label of the OCP logo and number must be attached on the product and no INMETRO homologation number is needed.



The homologation number must be attached to the product in the ANATEL Label.



HHHH - AA - FFFF

Technical information

Voltage: 220V, Frequency: 50Hz

Factory inspection

Safety approval of electrical/ electronic products requires manufacturing inspection once a year. Surveillance for telecom is conducted in one year for Category I products and two years for Category II products.

Validity period of certificate

If surveillance tests and assessments are done according to schedule, the certificates will be renewed automatically every second year. However, certificates for medical electrical equipment are valid for 5 years.

Rules

For Safety:

- The tests can be done at an ILAC Member Laboratories around the world, but must be done according the INMETRO test requirements.
- After the Manufacturing Inspection approval the sample of the product must be sent to the Laboratory and the test reports and product documentation must be sent to the OCP (ICBr).
- After the evaluation the Certificate of Conformity or a non-conformity report will be issued.
- For Medical Devices the OCP Certificate plus the medical technical files documentation must be sent to ANVISA for registration. (Brazilian Medical Surveillance Agency).

For Telecom:

- The laboratory testing must be done in Brazil.
- The Certificate of Conformity issued by the OCD (IBRACE), along with the certificate holder information and its bar code, must be sent to ANATEL in order to get the homologation number.

Bulgaria Product Certification - Co

Introduction

Bulgaria became a EU member in 2007 and has already carried out CE regulation as its certification principle. Bulgaria is now voluntary to original certification system, Co (Conformity), and products under its control list which obtain Co certificate and bare the Co mark to sell in Bulgaria. Intertek has established Co Certification channel to help customers to acquire Co certificates.

Marking



Technical information

Voltage: 230V, Frequency: 50Hz

Factory inspection

No

Validity period of certificate

1 year

Chile

Introduction

The Superintendencia de Electricidad y Combustibles (SEC) is the official safety regulatory and approval authority in Chile. Not all electrical and combustible products require SEC approval for use in Chile.

For products that do require a mandatory approval by SEC, both type testing in Chile and a local representative are necessary. The local representative will submit a sample to a local test entity, and upon completion, will submit the test report along with an application and other technical documents to SEC for review. Upon SEC review, the product will be granted a certificate of approval for use in Chile.

In addition to SEC, the Chilean approval authority for telecom and wireless products is the Subsecretaria de Telecomunicaciones (SUBTEL), which is a part of the Ministerio de Transportes y Telecomunicaciones. SUBTEL uses their own resolutions based on FCC and IEC standards to grant type approvals. To gain an approval from SUBTEL for a wireless product, the applicant must have a local representative in Chile who can submit and hold a technical folder to SUBTEL for review. A type test in Chile is not required for wireless products. Upon review of the technical file, SUBTEL will grant a Letter of Approval to the applicant, and the product can be marketed in Chile.

For telecom products, analog and ADSL equipment requires a type test in Chile. The applicant must submit a sample along with a technical folder to their local representative. The local representative will in turn submit both to CENET, which is the authorized Chilean testing lab at the University of Chile. Once the testing is complete, the test report and other documents will be submitted to SUBTEL for a final review. Upon review of the folder and test reports, SUBTEL will grant a certificate of homologation. The product may then be legally marketed in Chile.

Marking

SEC: For products that require a certificate of approval from SEC, the certificate number must be placed on the product.

SUBTEL: For telecom products that require a certificate of homologation, the homologation number must be placed on the product.

Factory inspection

No

Factory inspection

SEC: Certificates are valid for 18 months.

SUBTEL: Letters of approval and homologation are permanent.

China Product Certification System :

CCC, SRRC, NAL(MII) and CECP

Introduction

To best serve suppliers producing electrical and electronic products and appliances, Intertek develops various channels and provides a total solution to help suppliers access specific compliance efficiently in China.

The China Compulsory Certification (CCC) mark is required for products in 19 groups divided into totally 132 product categories, including many electrical and electronic products and appliances over 36V. According to laws and Regulation of China Compulsory Certification, any electrical and electronic products and appliances covered by the prescribed catalogue should acquire the CCC mark before it is imported, marketed or used for any commercial purposes in China. Safety and EMC are mandatory items for CCC mark.

SRRC controls the Wireless communications equipment that uses wireless transmission. The Ministry of Information Industry (MII) governed telecommunications products in China. Products being connected to the Public Telecom Network (PTN) to transmit and receive information are required to have a Network Access License (NAL) issued by MII.

Pursuant to CCC implementation rules on safety requirement, a CB test report is acceptable for safety concern, however EMC must be tested in China. In addition, all tests that are related to products controlled by SRRC and NAL (MII) shall be performed in China. No laboratory overseas has been accredited.

Chinese authorities have also started energy efficiency certificates in recent years. In May 2005, household refrigerators were the first mandatory product for energy conservation certification program. In August 2005, the scope extended to washers, with televisions to be included in the mandatory scope by March 2006. Although many products are still in voluntary list, many companies have started to apply for this certificate.

Marking

SRRC: no marking, but certification number shall be indicated on approved products.

MII: Approved equipment shall be affixed a label purchased from Ministry of Information Industry (MII)

CCC: either label approval or purchase ready-made CCC is accepted. Factory code shall be indicated under illustration of the CCC mark



Energy Conservation Certification: Either label approval or purchase ready-made label is accepted.



Technical information

Voltage: 220V, frequency: 50HZ
Plug must be certified against China Standards GB 1002

Factory inspection

SRRC: not applicable
NAL (MII): applicable
CCC: Initial factory inspection is undertaken by CQC in China; ETC or China Inspection Company in HK is designated for factory inspection in Taiwan area. CCC approved certification bodies conduct annual follow-up inspection in respective area.
Energy Conservation Certification: Initial factory inspection is undertaken by CQC in China

Validity period of certificate

SRRC: certificate is valid for five (5) years.
NAL (MII): certificate is valid for three (3) years.
CCC: not applicable, but required to pay annual fee to keep the certificate validated.

Rules

Series models are not applicable to SRRC and NAL (MII).
CCC: accepts series model application. Manufacturers and factory shall be identical with those listed on CB certificate. User manual and label shall be written in simplified Chinese character.

RoHS for China

The Chinese Ministry of Information Industry (MII) has released a list of 11 types of electronic information products, including IT and Telecommunication equipment, household electronic products, measurement and medical equipment, electronic components, electronic raw materials, and packaging materials. Administrative Measure on the Control of Pollution Caused by Electronic Information Products, effective March 1, 2007. All listed products are subject to the regulation, but an **official administrative catalogue of products** is not expected to be published before later this year. Required chemical testing shall be performed in designated Chinese laboratories.

The Administrative Measure adopts a “two-step” approach:

- **Step 1: Labeling** to inform downstream users (consumers) on:
 - Names and contents of toxic and hazardous substances,
 - Environment-friendly use period, and
 - Product Recyclability
 - marking standard covers:
 1. Hazardous substance content;
 2. The safe-to-use period; and
 3. Packaging material (not covered by EU RoHS)
- 

- **Step 2: When listed in the Administrative Catalogue,**
 - Products should meet the limit(s) set by the standard(s) for toxic and hazardous substances
 - Products must meet 3C certification before entering the market!
 - MCV's to be the same as EU **but applied to 3 groups:**
 1. Parts of homogeneous materials to which the concentration limits apply;
 2. Small items hard to disassemble and treated like homogeneous materials; and
 3. Metal plate parts, in which RoHS substances may occur if they have not been added intentionally

India Certification : BIS, STQC and TEC

Introduction

The Bureau of Indian Standards (BIS) perates certification for ISI Mark (for Safety) as per Indian Standards. The certification allows the licensees to use the popular ISI Mark, which has become synonymous with Quality products for the Indian and neighbouring markets over the past 50 years. BIS is a National Certification Body under the CB Scheme primarily in electrical components sector. The grant of BIS license is based on testing at labs recognised by BIS in India.

Standardisation, Testing and Quality Certification (STQC) Directorate is an attached office under the Department of Information Technology, Government of India. STQC Certification Schemes as per IEC / CISPR Standards for Electronics Products and Components primarily. STQC Schemes and marks are well known in India.

Telecom Engineering Centre under Department of Telecommunications imparts TEC Approvals for Telecom Equipment requiring connection to public networks or interface with them. Standards followed are drafted by TEC but are generally adopted International standards.

Marking

BIS Certification - ISI mark



STQC Certification



TEC Certification - No marking

Technical information

Voltage: 220V

Plug dimensions are per Indian Standard IS 1293, which is identical to IEC Standard Sheet no B1

Factory inspection

All BIS, STQC and TEC certificate need annual factory inspection.

Rules

- Local Representative is required
- For BIS certificate, manufacturer is supposed to have test facilities for routine tests.
- Plugs to be mandatorily tested as per Indian Standard by recognized NCB. CB certificate by IEC standard will not be accepted

Israel Safety Certification Program (SII)

Introduction

An agreement has been signed between Intertek and SII for an efficient and rapid issuance of Israel certificate. Under this mutual agreement, applicants simply submit Intertek's CB within the scope and EMC report normally with no sample required for the SII mark certificate. Most AC powered products are required to obtain the SII certificate.

3 different programs are available for applicants to choose:

1. SII Standard Mark: to apply the mark, pre-license inspection by SII is required. CIG023 is not acceptable for Israel.
2. SII Test Certificate: the most widely applied certificate. No mark is granted while application approved, but allows products to be imported and sold after shipment test at customs.
3. Shipment inspection: Israel Customs conduct test and inspection for products without either certificate while imported. Due to a high rate of failure on tests, this channel is not suggested.

Marking

Only applicable for SII Standard Mark Certificate



Technical information

1. Voltage: 230V, 50 Hz
2. Plug should comply with the SI32

Factory inspection

Only applies to Mark Certification

Validity period of certificate

Mark Certification: 1 year
Type Certification: 3 years

Factory inspection

- Series model is not acceptable in principle.
- Samples are normally not required. (Number of samples required is subject to different manufacturers for identical model.)
- Hebrew is a must on package label and user's manual.

Japan Product Conformity Assessment -

PSE, TELEC, JATE and VCCI

Introduction

The Electrical Appliance and Material Safety Law, which commenced implementation on 1st of April 2001, regulates most electrical appliances for either home or business use that are intended to be sold in Japan. Safety and EMC requirements are mandatory to whole electrical products as well as specified critical components, accessories being incorporated.

According to the safety regulation enacted by Japan Authorities, products are categorized into Category A as Specified Products (SP) and Category B as Non-Specified Products (NSP). Products listed in Category A require tests performed by designated laboratories of Japan, whereas no restriction in testing location to products in Category B.

The Minister of Public Management, Home Affairs, Posts and Telecommunications promulgated Radio law to regulate wireless communication equipment. TELEC is a certification body in Japan to issue the certificate of compliance of wireless communication equipment.

In addition, Japan Approvals Institute for Telecommunications Equipment (JATE) was licensed and designated as a Technical Conditions certification body by Minister of Public Management, Home Affairs, Posts and Telecommunications to promptly begin certification activities for telecommunications terminal equipment in Japan.

EMC testing is controlled on a voluntary basis, under the supervision of the Voluntary Control Council for Interference by Information Technology Equipment (VCCI). The VCCI was formed in response to a government request to implement a voluntary EMI-control program to personal computer, fax machine or specified electronic products. Although the VCCI compliance program is voluntary, it is widely supported by major Japanese companies and is increasingly perceived as an indication of product quality.

Marking

SP PSE mark (diamond type)



NSP PSE mark (round type)



TELEC



JATE



VCCI



Technical information

- Voltage: 100/200V, Frequency: 50/60Hz
- Plug shall comply with PSE regulation stipulated in the Enforcement Regulations Appendix 4

Factory inspection

- PSE Initial factory inspection must be accomplished before SP (Category A) PSE certificate of compliance is issued. The registered T-Mark License will exempt the applicants from factory inspection
- PSE category B, Telec JATE and VCCI: not applicable

Validity period of certificate

PSE: Validity period of certificate is subjected to different product category. For example: Certificate of DC adaptor is valid for 5 years. Telec, JATE and VCCI: Permanent certificate

Rules

PSE

- The holder of PSE certificate shall be the manufacturer who produces the product.
- Only Japan local representatives are eligible to register to Ministry of Economy, Trade and Industry (METI)

TELEC

- Test reports shall be issued by approved laboratories.
- Certification bodies recognized by Minister of Public Management, Home Affairs, Posts and Telecommunications review applications and issue the certificate of compliance after applicants is informed of the equipment's compliance.

JATE

- Regulated not only products being directly connected to PTN but also the products being connected indirectly to PTN via LAN or WAN.
- Test reports issued by any testing laboratories that are capable to conduct specified tests are accepted.

VCCI

- Only members of the VCCI are eligible to participate certificate of compliance program.
- Applicants shall be registered to VCCI as member prior to application.
- Equipments with testing being performed at a facility registered with the VCCI will be issued a certificate of compliance
- A formal notification to acknowledge of receipt of application will be issued in approximately 2 weeks. Whereas, no formal response will be given for on-line application.

RoHS for Japan

- Japan "RoHS" (J-MOSS) – July 1st, 2006
- Promoting the use of recyclable resources by providing information on specific chemical substances contained in EEE
- Same 6 substances, MCV's, for seven types of EEE
PC's plus displays, Unit type AC's, TV's, Microwaves, Driers, Refrigerators, Washing machines
- Compulsory content Marking requirement in Japanese language
- Provide information on presence of substances on equipment, container, catalogues and WebPages
- When chemical substances exceed MCV, chemical substance symbols must be written together with the content mark
- When none contained or exempted, green mark can be applied voluntarily
- Details, requirements and exemptions specified in JIS C0950



Kazakhstan Certificate of Conformity on Safety: CKT

Introduction

The CKT Mark - Kazakhstan Certificate of Conformity on Safety is required for most electrical products and appliances. In accordance with the safety regulation enforced by Kazakhstan Authorities, safety and EMC are mandatory test items. Under a closer cooperation with Kazakhstan certification body, Intertek helps customers acquire their safety certificate efficiently. Additionally, Hygienic certificate is required for specific electrical appliances utilized in Kitchen.

Marking



Technical information

Voltage: 220V, Frequency: 50Hz

Factory inspection

Applicable; specified certification body accepts CIG023 reports

Validly period of certificate

Certificate is valid for either half-year or one year at different cost.

Rules

- Manufacturers listed on CB certificate are allowed to apply CKT. The number of certificate is subject to the manufacturers applied.
- Series models that comply with CB report and certificate are applicable.

Kenya Pre-shipment Verification of Conformity to Standards Programme

Introduction

The Kenyan Bureau of Standards (KEBS) of the State of Kenya is responsible for the preparation, adoption and application of Standards for both imported and domestically manufactured products in the Kenyan market.

As of Sep 2005, KEBS has implemented the Pre-shipment Verification of Conformity (PVoC) to Standards Programme as a conformity assessment and verification procedure applied to all regulated products.

Marking

No certification mark

Technical information

Voltage: 230V, 50 Hz
Plug types : BS1363

Factory inspection

Not applicable

Validity period of certificate

1 year

Korea Certification Scheme: EK and MIC

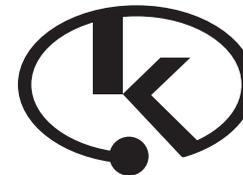
Introduction

The Korea Safety Certification scheme that includes electrical appliances used with mains-powered between 50V and 1000V. Intertek is the one of the accredited laboratories that is recognized by KETI to perform EK regulated safety and EMC tests.

Other than EK, MIC is another certification to regulate EMC requirements for products under the category of Information Technology Equipment (ITE) and controlling wireless (RF) as well as telecommunication equipment. Pursuant to the regulation of Korean Government authority, only RRL-accredited laboratories are allowed to conduct specified tests for MIC certification. Accordingly, samples submitted to RRL for required local tests are still mandatory for MIC's compliance evidence.

Marking

EK: Certification Body Name and safety Certification Number shall be indicated under the illustration of the safety certification mark (see illustration below)



KETI xxxx-xxxx

MIC: Certification Number shall be indicated under of illustration of the safety certification mark (see illustration below)



xxxx-xxxx

Technical information

Voltage: AC 110V or 220V. Frequency:
60 Hz Power Supply Plug shall be certified to Korea Standard KSC83054

Factory inspection

EK: required factory inspection. CIG023 is acceptable for initial factory inspection. Follow-up factory inspections will be conducted once a year.

MIC: Factory inspections are not required.

Validity period of Certificate

EK: Not applicable. But annual follow-up factory inspection is required to ensure the certificate is validated.

MIC: Not applicable

Rules

- The EK certificate holder shall be the manufacturer who actually produces the product in the production line.
- Power supply or any power cord that connected with electric appliances are compulsory items and shall be EK certified.
- EK accepts series models but with a special principle to determine the family of products.
- Starting from June 2004, a new regulation called Sample Selecting Procedure, was included in the EK certification. This new regulation required that certified product in the same category should be tested for production verification by the Certification Bodies at every 3 years.

Kuwait Conformity Assurance Scheme - KUCAS

Introduction

The Public Authority for Industry of the State of Kuwait (PAI) has implemented the 'Kuwait Conformity Assurance Scheme' (KUCAS) as of June, 2006. The scheme is a group of procedures carried out by PAI to verify the conformity of all regulated products to the Kuwait's technical regulations on imported and domestic products alike in accordance with the regulation of this scheme.

Kuwait's regulated products includes electrical, automotive, chemical, building materials and others. For electrical products, Kuwait only requests safety test, and no EMC is needed.

Marking

No certification mark

Technical information

Voltage: 240V, Frequency: 50Hz
Plug need to apply BS1363 or BS546 standards

Factory inspection

Type approval needs factory inspection.

Validity period of certificate

1 year

Rules

- Original report must be issued within two years by accredited lab or within three years for CB reports.

Malaysia Certification: Safety & Telecom

Introduction

With the increase in trade and corresponding growth in demand for quality and safety by government authorities, purchasers and consumer, the Malaysian government set up a means of providing assurance that a product complies with specified standards or specifications. The regulatory body for product safety is Energy Commission (Suruhanjaya Tenaga). The legislative framework is the electrical supply act 1990 and electrical regulation 1994. To market controlled goods in Malaysia, suppliers obtain a Certificate of Approval and need to enter the Batch Testing Scheme / Consignment Inspection. If the product is shipped in Malaysia regularly, supplier can opt to enroll in the Product Certification Scheme instead. However the Product Certification Scheme is not mandatory.

Under the Communication and Multimedia Act 1998, the certification of communication equipment is a mandatory requirement. The Communication Equipment Testing Section is officially appointed by the Communications and Multimedia Commission to be the certifying agent for telecommunication. It is a mandatory requirement that telecommunications equipment under the Communication Equipment Certification Scheme is tested and labeled with a certification mark.

Marking

“MS Batch” label can be obtained by enrolling in Batch Testing Scheme / Consignment Inspection while “MS” label can be obtained by enrolling in Product Certification Scheme.



For telecommunications equipment that fall under the Communications Equipment Certification Scheme, “CM mark” is used.

Technical information

Voltage: AC 240V. Frequency: 50 Hz
Power Supply Plug shall be certified to Malaysia Standard MS 589: PT.1: 1997 and MS 589: PT.2: 1997 for 3 pin rectangular type 13-amp plug.

Factory inspection

Two factory surveillances per year are required for Product Certification Scheme whereas testing of one sample per batch per model is required for Batch Testing Scheme / Consignment Inspection. There is no factory surveillance requirement for Communication Equipment Certification Scheme.

Validity period of Certificate

The certificate for the Certificate of Approval and Communication Equipment Certification Scheme is valid for one (1) year and is subjected to renewal.

The certificate for Product Certification Scheme will last for three (3) years.

Rules

- The Government Authority named Suruhanjaya Tenaga
- Purchasing label is required
- Test report must not be older than five (5) years from the testing date

Mexico Conformity Assessment System - NOM

Introduction

There are two certification bodies in Mexico-NYCE and ANCE, controlling and issuing NOM certificates for the electrical and electronic products and appliances depending on product category. Intertek, recognized by NYCE, is able to perform specified safety tests to the applicable NOM standard (s). Samples submitted to Mexico for local tests are no longer required, which is an important step to speed up the process.

Additionally, wireless and telecommunications terminal equipments shall be certified by COFETEL, and FCC report for certificate application is acceptable.

Marking

Certification Body Name such as NYCE or ANCE shall be indicated at the right side of illustration of the safety certification mark. For products with radio or telecommunication function, COFETEL Certification Number shall be presented. (See illustration below)



Technical information

Voltage: AC 127V and 220V. Frequency: 60 Hz

Power supply plug shall be certified against Mexican standard NEMA 1-15

Factory inspection: not applicable

Validity period of Certificate

Certificate is valid for one (1) Year. Renewal of certificate will be processed as new application.

Rules

- Standards other than NOM (Mexican Official Standards), such as IEC or EN, etc are not accepted.
- NOM accepts series models but holds a stringent principle to determine the family of products. Please contact Intertek for series application.
- Different brand name is subjected to separate certificate.
- NOM holder shall be the Mexican legal representative(s).
- Intertek cooperates with local agent in Mexico to provide service as local representative, so that all applicants can access NOM certificate successfully

Nigeria SONCAP certification

Introduction

To help eliminate the export of unsafe and sub-standard goods to Nigeria, the Standards Organisation of Nigeria – SON, have introduced the Conformity Assessment Program (SONCAP). SONCAP takes effect from 01 March 2005 for products within its scope. And it is applicable in addition to any existing import processes such as Pre-Shipment Inspection. SONCAP applies to certain categories of products known as Regulated Products. All consumer electrical and electronic products are under the Regulated Product List.

Obtaining the necessary Certification under SONCAP is a two-stage process.

Stage 1 – Obtain a Product Certificate

The Product Certificate is evidence that the product you intend to ship complies with the standards recognised under SONCAP. A Product Certificate can be used repeatedly until its expiry.

Stage 2 – Obtain a SONCAP Certificate

The SONCAP Certificate is the document that will be required to help ensure the release of goods from the destination port in Nigeria. The SONCAP Certificate is the evidence that all goods within a given consignment have a valid Product Certificate and where appropriate have been verified, through sampling or otherwise, that they are not sub-standard. A SONCAP Certificate can only be used once and is only valid for that particular shipment

Marking

No certification mark

Technical information

Voltage: 240V, Frequency: 50Hz

Plug need to apply XXX standards

Factory inspection

No factory inspection is required

Validity period of certificate

Not applicable

Rules

- All certification activities must be undertaken in the country of export
- Original report must be issued within two years by accredited lab.

Poland B mark

Introduction

Poland became a member of the European Union in May, 2005. Electrical appliances imported to Poland after this date require CE marking. Although Poland B mark is not mandatory anymore, B mark is a very effective marketing tool that is recognized by many Poland consumers. PCBC and BBJ-SEP are the authorities to issue B mark. Customers can simply apply the B mark with Intertek CB and EMC reports. For electrical products, B mark mainly regulates safety and EMC related fields; some products may also need to apply Hygienic certificates.

Marking



Technical information

Voltage: 220V, Frequency: 50Hz

Factory inspection

Once a year; CIG 023 report is accepted.

Validity period of certificate

3 years

Rules

- Food contacting appliances need hygiene certificate

Russia GOST R Certification

Introduction

Intertek has signed agreements with the Russian certified bodies ISC Rostest. and VNIIS. Clients can simply apply the GOST R certification with Intertek CB and EMC reports. For electrical products, GOST R mainly regulates safety and EMC related fields; some products may also need Hygienic and/or Fire safety certificates.

Marking



Certification body number should be marked underneath the logo.

Technical information

Voltage: 220V, Frequency: 50Hz

Factory inspection

Once a year ; CIG 023 report is accepted.

Validity period of certificate

3 years for GOST R and 5 years for Hygienic

Rules

- First time applicant needs to provide customs tax code (HS code).
- Series models accepted, multiply factories listed in one certificate is allowed.

Saudi Arabia KSA ICCP Certification

Introduction

To secure public health, consumer and national security, the Saudi Arabia government agency MOCI established ICCP (International Conformity Certification Program) procedure to regulate all consumer products quality and safety. This procedure contains three certification methods: lot inspection, registration and type approval. Clients may choose the most suitable way to apply certification according to their own needs.

In addition Saudi Arabia government established the solid certification of compliance scheme in order to help clients acquire MOCI approval during the past ten (10) years. Intertek has an excellent communication link with Saudi Arabia Authorities to transmit clients' opinions. Currently the most popular certification method is registration, which includes Safety and EMC testing.

Marking

No certification mark

Technical information

Voltage: 127V/220V, Frequency: 60Hz

Plug types are NEMA 1-15P, NEMA5-15P, BS1363, all based on SSA 444

Factory inspection

Only Type approval needs factory inspection.

Validity period of certificate

1 year

Rules

- Original report must be issued approved in two years from accredited lab.
- Safety standards are mainly according to KSA, IEC and EN standards
EMC standards are mainly according to CISPR standards

Singapore Certification: Safety & Telecom

Introduction

Standards, Productivity and Innovation Board (SPRING Singapore) has been appointed the Safety Authority to approve and register consumer products designated as Controlled Goods under the Consumer Protection (Safety Requirements) Registration Scheme (CPS Scheme).

Intertek was designated by SPRING Singapore to test controlled goods for the CPS Scheme. Submitting the test reports issued by Intertek together with all necessary documents to designated Conformity Assessment Bodies (CABs) in Singapore, the Designated CABs will issue the Certificate of Conformity (COC). Intertek ETL SEMKO Singapore will be the next CAB to issue COC from 2nd quarter 2006.

Based on the IDA guideline version July 05, telecommunications equipment for connection to the network in Singapore must be certified according to the IDA guideline. Applicants must possess an IDA registered dealer license. There are generally two schemes: Equipment Registration (EQR) Scheme and Simplified Equipment Registration (SER) Scheme.

Simplified Equipment Registration (SER) scheme applies to most type of telecommunication equipment e.g. GSM and DECT phones, wireless LAN, Bluetooth, RFID, remote controls and alarm systems, ADSL and cable modems. Under SER, is based on declaration that the equipment is capable of meeting the applicable IDA Technical specification.

General Equipment Registration (GER) scheme applies to all categories of telecommunication equipment. Complex or multi-line equipment, analogue land mobile, 3G and wireless broadband access equipment.

Marking

All controlled goods registered must bear the SAFETY Mark before they can be supplied to the Singapore market. The Safety mark can either be affixed on the controlled goods or their packaging (to be affixed in a prominent location).



1 2 3 4 5 6 - 0 0

For EQR scheme, it is not required to have marking.

Technical information

- Voltage: AC 230V. Frequency: 50 Hz
- Power Supply Plug shall be certified to Singapore Standard SS145 (3-pin rectangular type) or SS472 (3-pin round type)

Factory inspection

Factory inspection is not required. However there is market surveillance conducted by the authorities.

Validity period of Certificate

3 years for COC under CPS scheme while 5 year validity of registration for EQR scheme

Rules

- Registered Suppliers should be companies located in Singapore and registered with SPRING Singapore under the CPS Scheme
- After registered suppliers have submitted the controlled goods registration, certification numbers would be allocated by CABs and registered suppliers shall mark the controlled goods with the SAFETY mark with the certification number upon receiving the 'Acknowledgement Receipt for Certification of Conformity'.

South Africa : EMI, LOA and ICASA

Introduction

To ensure the safety of the public, South Africa authority required all electrical appliances selling in the market to get EMI certificate. Some of the electrical products need mandatory safety approval, called Letter of Authority (LOA). Both EMI and LOA are issued and managed by South Africa Bureau of Standards (SABS). Through international mutual recognition agreement, SABS accepts.

EMI test reports for many accredited laboratories. CB test reports are accepted for LOA. In addition, Intertek's safety and EMI reports are also applicable for these certificates without any additional tests.

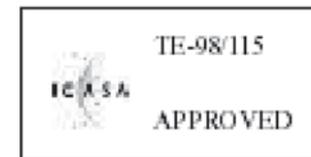
The applicants of the LOA should be local South African companies. Intertek provides local agent representative services to help exporter enter the market.

RF and telecommunication products in South Africa are regulated under ICASA. Intertek is also capable of testing some of the wireless and telecommunication products.

Marking

Voluntary SABS Certification (Not for LOA)

ICASA: required to show the approval number



Factory Inspection

Only voluntary SABS mark require factory inspection, EMC, LOA and ICASA do not need any factory inspection.

Certification Period

EMI and LOA: 3 years

ICASA: 1 year, need to be renewed every year

Remark

- Voltage : AC230V, Frequency 50Hz
- Applicants should be local South African Companies
- Only test reports from accredited laboratories are accepted

Taiwan Product Certification System: BSMI, DGT and Green Mark

Introduction

The Bureau of Standards, Metrology and Inspection, Ministry of Economic Affairs in Taiwan has established a quality management system to regulate those commodities (electrical appliances included) subject to legal inspection and testing that intend to be marketed, imported or used for any commercial purposes in Taiwan.

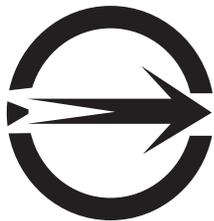
To enhance overall service quality as the certification leader, Intertek, a BSMI-accredited lab is not only capable to conduct specified tests in the safety (ITE, Video and Audio-related products) and EMC field but also to submit the application for customers, which provides one-stop shop efficiency.

In addition to BSMI, the Directorate General of Telecommunications (DGT) is an independent regulatory body under the supervision of the Ministry of Transportation and Communications (MOTC) to regulate the products that are wireless transmission and intended or capable to be connected to the Public Telecom Network (PTN) to process, receive, transmit or convert signals. ChungHwa Telecom and ETC (Electronics Testing Center) are designated as certification bodies to issue the certificate for DGT. Applicants shall submit recognized test reports for DGT application. Intertek, one of DGT accredited laboratories, is your choice.

Green Mark of Taiwan states the concept of green consumption through a symbol of green leaves and the green globe which symbolizes a clean, non-contaminated Earth. It also highlights that the green consumption should be enhanced globally to promote the concept of recycling, pollution reduction, and resource conservation. The mark also guides consumers to purchase green products and encourage manufacturers to design and supply environmental friendly products.

Marking

BSMI:



DGT: Certification number shall be indicated at the right side of illustration of the DGT mark.



X xx YY yyy Z z

Green mark



Technical information

1. Rated voltage: AC 110V or 220V, rated frequency: 60Hz
2. Plug shall be certified against CNS (Chinese National Standard)

Factory inspection

Not applicable for all BSMI, DGT and Green Mark certification

Validity period of certificate

BSMI is valid for three years; DGT & Green Mark is not applicable.

Rules

- Three different approaches for BSMI application have been designed to take into account the different characteristics of products or product sectors in meeting the BSMI regulatory requirements. These are registration of product certification (Type approval), declaration of conformity and traditional lot-by lot inspection.
- In addition to declaration of conformity, BSMI shall grant applicants a certificate after a product category is announced in accordance with relevant standard.
- With effect from July 2005, BSMI enforce the safety regulation for product under Information Technology Equipment category. Transition period ends at June 2005 since promulgation.

Thailand Certification Scheme: TISI

Introduction

Thai Industrial Standards Institute (TISI) develops both mandatory and voluntary Thai Industrial Standards (TISs) to suit the needs and growth of industry, trade and economy of the country. Standards are developed according to the government policy in consumers protection, industrial promotion to be competitive in the world market, environmental protection and natural resources preservation. The product certification schemes of TISI consist of five types of different certification marks. They are the voluntary certification mark, mandatory certification mark, safety standards mark, environmental standards mark and electromagnetic compatibility standards mark

In addition, TISI, in co-operation with the Thai Environment Institution, carries out Green Label Scheme by which certified product can bear green label. This is the measure to reduce pollution in the environment as well as to encourage manufacturers to use clean technology.

Marking



voluntary
certification mark



certification mark



safety
standards mark



environmental
standards mark



electromagnetic
compatibility
standards mark

Technical information

- Voltage: AC 220V. Frequency: 50 Hz
- Plug and supply cord according to TISI's specification:
- Plug: 906m EN50075, TIS66 or IEC60884
- Supply cord: IEC 22 or VDE HO3VVH2-F

Factory inspection

Factory inspection is required if the factory is not complied to ISO9000

Validity period of Certificate

Not applicable

Rules

- Market surveillance twice every year
- Local Representative is required for the application

Ukraine Safety Certification Scheme: UkrCEPRO and UkrTest

Introduction

In accordance with the safety regulation enforced by Ukraine Authorities, safety and EMC are mandatory items for most electrical and electronic products and appliances.

Under a closer cooperation with Ukraine certification body, Intertek helps customers acquire the desired safety certificate base on valid CB test report. Furthermore, the EMC report issued by Intertek, as a Ukraine-approved laboratory is accepted for EMC certificate, which enables local essential testing exemption.

Marking



Technical information

Voltage: 220V, Frequency: 50Hz

Factory inspection

Applicable; CIG023 report accepted

Validity period of certificate

For UkrTest, certificate is valid for 3 years after the issue date of CB certificate
For UkrCEPRO, certificate is valid of 1 year

Rules

- Series models that comply with CB report and certificate are applicable.
- Electric appliance with external power supply should be presented along with UKrCEPRO certificate for the power supply. For power supply certification is a mandatory item in Ukraine.

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