

IECEE, the Worldwide System for Conformity Testing and Certification of Electrotechnical Equipment and Components



*By Pierre de Ruvo
Executive Secretary*

IECEE System

The IECEE System, originally operated by the CEE (International (European) Commission for Conformity Certification of Electrical Equipment), was integrated into EC in 1985 as the CB Scheme of the IECEE. Today this Scheme is called “Scheme of the IECEE for Mutual Recognition of Test Certificates for Electrotechnical Equipment and Components (CB Scheme)”

EC

CE

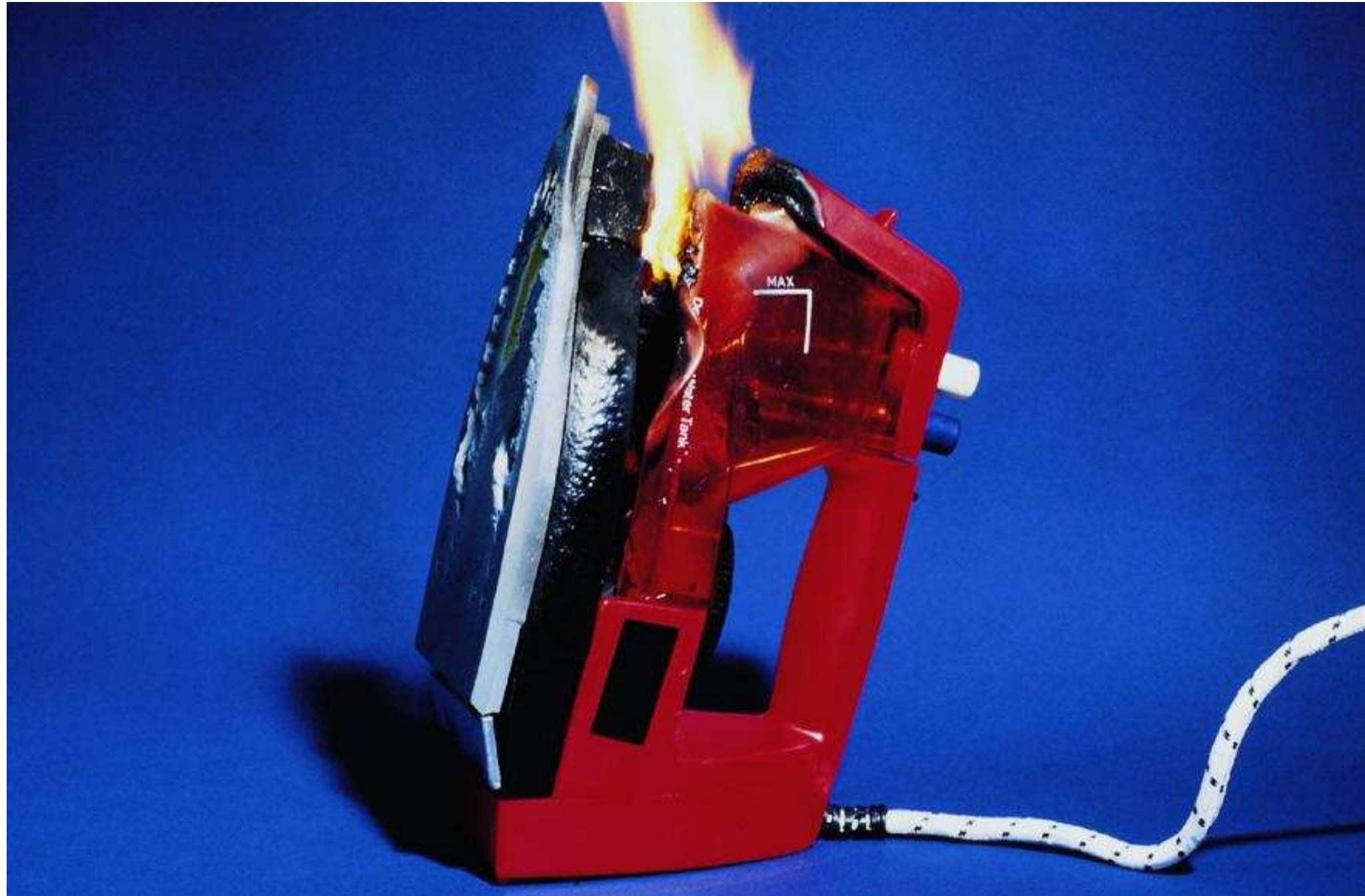


Third-party conformity assessment activity is performed by a person or body that is independent of the person or organization that provides the object, and of user interests in that object.

IECEE is operating Third Party conformity assessment schemes

Thousand of people are seriously injured or killed each year as a result of electrical domestic accidents.

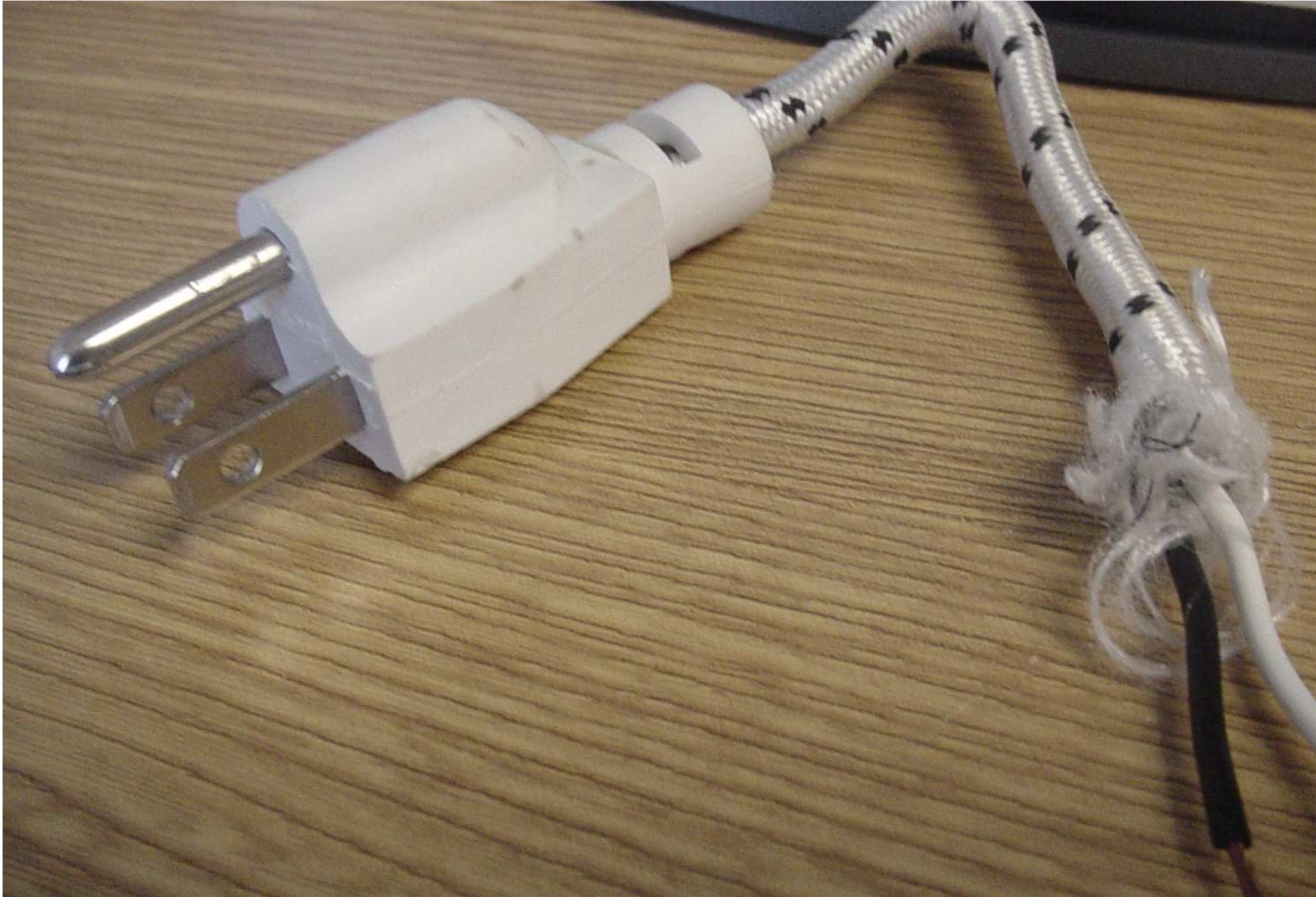
Electrical accidents are the result of a failure to properly design or make changes to electrical and electronic appliances, equipment and components or electrical installations without seeking third party expertise to ensure compliance with the relevant IEC standards.



The Impact of non-conforming and Counterfeit products...



The Impact of non-conforming and Counterfeit products...



Electrical accidents are essentially due to products that do not meet the requirements of IEC standards.

Electrical accidents are also the result of product piracy and counterfeit because counterfeiters often use low level (quality) materials and avoid key manufacturing steps to reduce the cost of their products, allowing them to be sold at prices that no genuine brand manufacturer can match.

Such counterfeit electrical products can i.e. overheat or cause short circuits and lead to fire, shock or explosion.

Do counterfeit electrical products really present any health and safety problems

It is a fact that counterfeit electrical products can be dangerous and unsafe due to the fact that they use second choice of raw material, have poor assembly and lack third party testing & Certification

Counterfeit has reached the electrotechnical sector

Trademark counterfeiting has reached the electrical sector. Counterfeit electrical products impact both well known industrial and consumer brands, as well as registered certification marks of IECCE Registered Certification Bodies.

Counterfeit electrical products can generate significant safety hazards and, left undetected, can cause deaths, injuries and substantial property loss in the home and workplace.

Counterfeit has reached the electrotechnical sector

Although counterfeit products may appear as excellent copies of the genuine product, market control and investigations show that many are sub-standard and fail to pass IEC safety requirements.

However detection based on appearance can be difficult and may only be determined after inspecting suspicious products and performing the relevant safety tests.

The Impact of Counterfeiting

Counterfeiting of consumer products is a growing problem with significant impacts on consumers, businesses and entire economies.

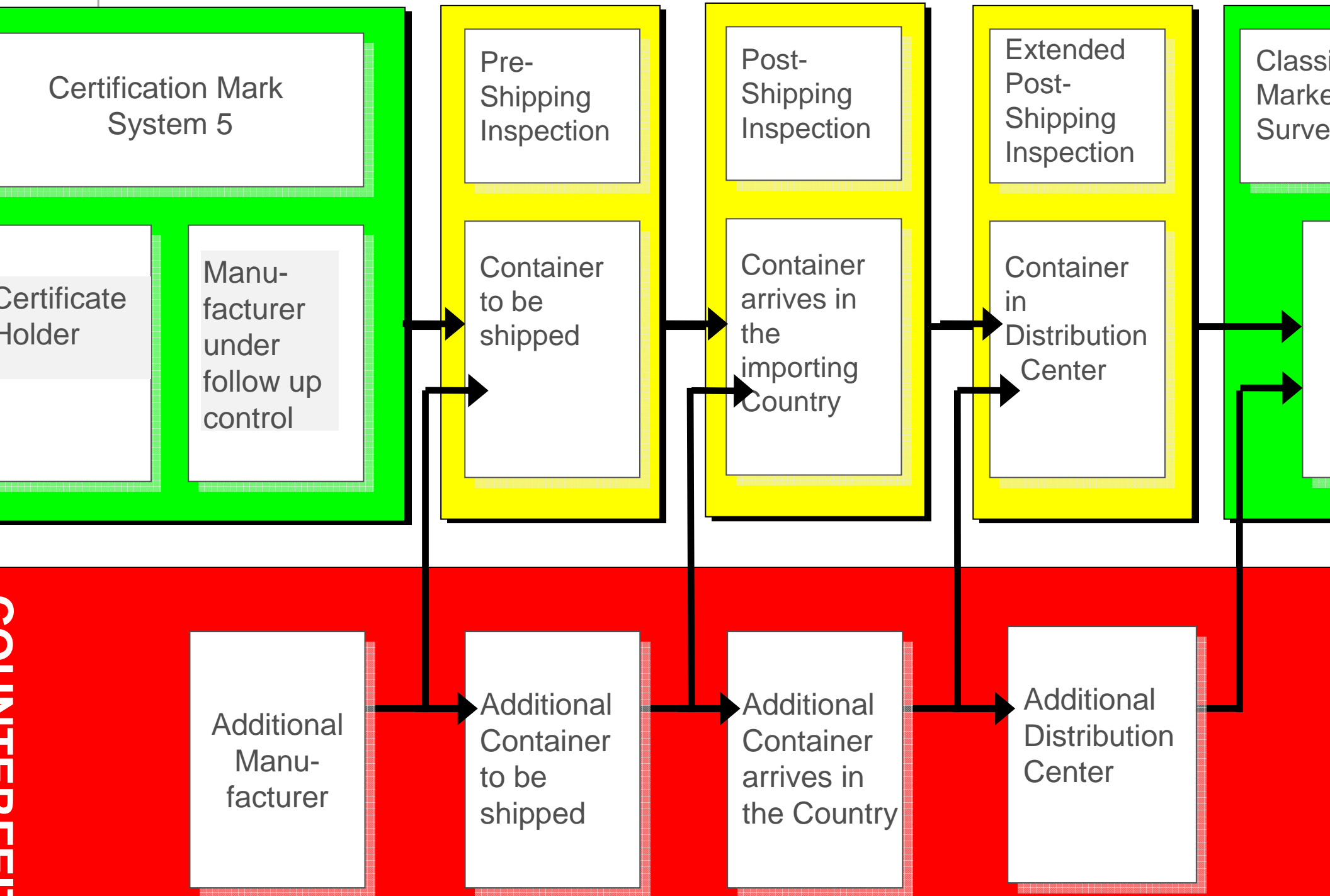
Original Bosch Tool



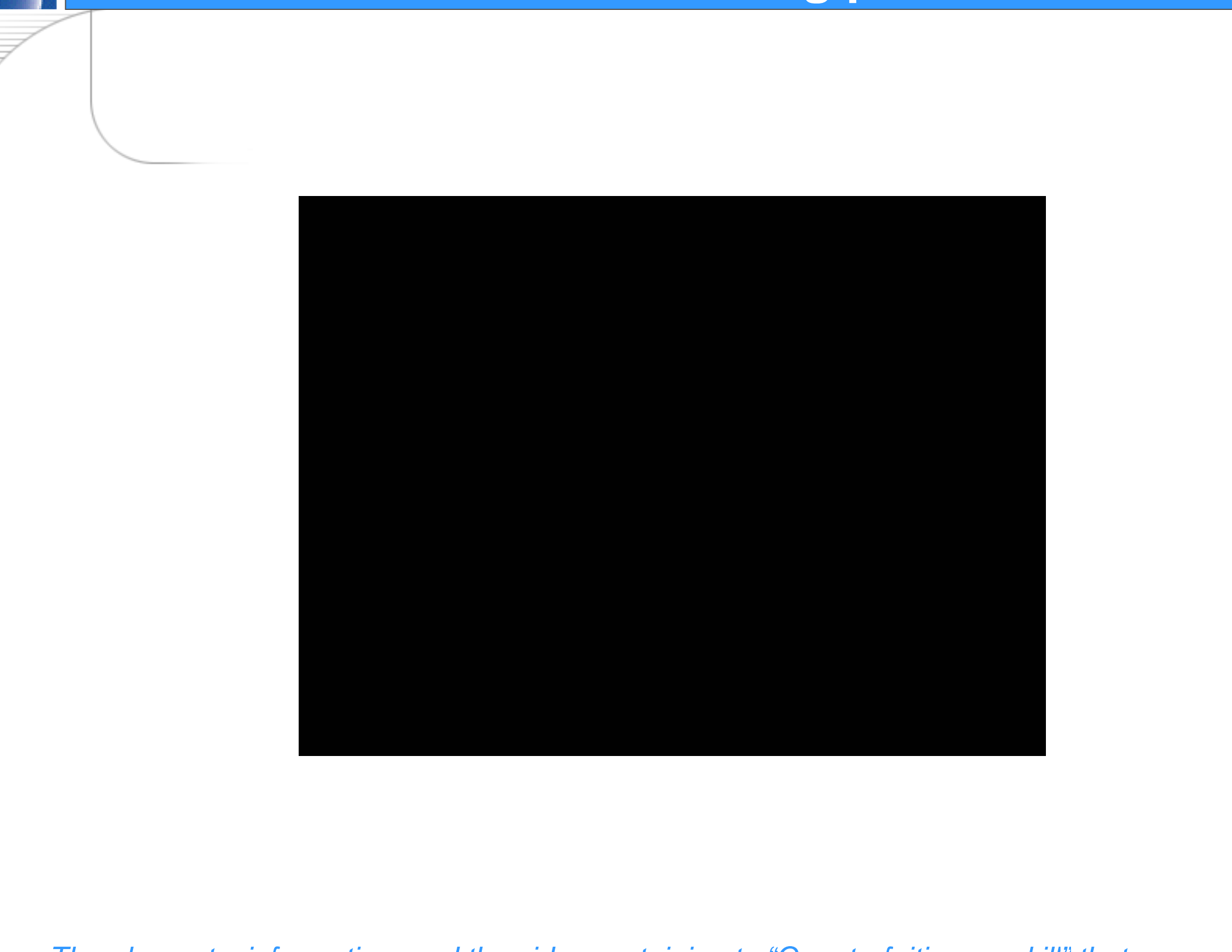
Copy Tool



Challenging mechanism



Fully out of control and responsibility of certification body



- by using an alphanumeric, forgery-proof code for your products
- by using our investigation service which collects and analyzes information about illegal production facilities and the sale of counterfeit goods
- by analyzing and reviewing your supply chain to protect your shipments from theft or the infiltration of counterfeit goods
- by implementation of an all-inclusive security management solution (ISO/PAS 28000)

- IECCE is establishing a dedicated Task Force « Counterfeit ».
- IECCE central on-line data base can be consulted to check whether CB Test Certificates are real and valid.
- IECCE Member NCBs actively participate with INTERPOL in the Intellectual Property Crime Program

Worldwide System for Conformity Testing and Certification of Electrotechnical Equipment and Components (IECEE)

<< Previous | Next >> | Expand + | Collapse -

2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009



NCB (2010)

468

HOUS

SE-41614A1/M3	2010-05-11	Access Business Group	Air cleaner with mechanical filter
SE-41615A1/M3	2010-05-11	Access Business Group	Air cleaner with mechanical filter
SE-41616A1/M3	2010-05-11	Access Business Group	Air cleaner with mechanical filter
SE-46745A2/M2	2010-03-15	BLUEAIR AB	Air cleaner with electric filter
SE-46746A2/M2	2010-03-15	BLUEAIR AB	Air cleaner with electric filter
SE-48229M1	2010-02-11	Skil Europe BV	Vacuum cleaner for household use
SE-50401A3/M3	2010-02-11	Illycaffè S.p.a.	Coffee-maker for household use
SE-50668A3/M3	2010-02-11	Illycaffè S.p.a.	Coffee-maker for household use
SE-50669A3/M3	2010-02-11	Illycaffè S.p.a.	Coffee-maker for household use
SE-50988A1	2010-04-13	Everest Industrial Co.	Compressor refrigerator
SE-50989A1	2010-04-13	Everest Industrial Co.	Compressor refrigerator
SE-50990A1	2010-04-13	Everest Industrial Co.	Compressor refrigerator
SE-50991A1	2010-04-13	Everest Industrial Co.	Compressor refrigerator
SE-50992A1	2010-04-13	Everest Industrial Co.	Compressor refrigerator
SE-50993A1	2010-04-13	Everest Industrial Co.	Compressor refrigerator
SE-50994A1	2010-04-13	Everest Industrial Co.	Compressor refrigerator
SE-50995A1	2010-04-13	Everest Industrial Co.	Compressor refrigerator
SE-50996A1	2010-04-13	Everest Industrial Co.	Compressor refrigerator
SE-50997A1	2010-04-13	Everest Industrial Co.	Compressor refrigerator
SE-50998A1	2010-04-13	Everest Industrial Co.	Compressor refrigerator
SE-50999A1	2010-04-13	Everest Industrial Co.	Compressor refrigerator
SE-51000A1	2010-04-13	Everest Industrial Co.	Compressor refrigerator
SE-51001A1	2010-04-13	Everest Industrial Co.	Compressor refrigerator
SE-51003A1	2010-04-13	Everest Industrial Co.	Compressor refrigerator
SE-51004A1	2010-04-13	Everest Industrial Co.	Compressor refrigerator
SE-51005A1	2010-04-13	Everest Industrial Co.	Compressor refrigerator

certificates.iecee.org

Home / Search

Help

Issue certificate

CB certificate

EMC certificate

Code

Company codes

View by

CN=Christophe Boyer/OU=CO
/O=IEC

NCB

Certificate no.

Applicant

Applicant location

Manuf. location

Factory location

Manufacturer

Prod. category

Standard used

FCS

HSTS

Cancelled CBTCs

IEC



IECEE

CB

SCHEME

One test

One certification

One mark



- ▶ One test
- ▶ One international certificate
- ▶ One or more certification marks as needed or direct acceptance in the market place by Regulators, Custom Retailers, Buyers, Vendors, etc..



ADVISORY BODIES
*Policy Cmte.
Marketing Cmte.*

COUNCIL
National Committees

CENTRAL OFFICE
Geneva
Switzerland

COUNCIL BOARD
EXECUTIVE COMMITTEE

STANDARDIZATION MANAGEMENT BOARD

CONFORMITY ASSESSMENT BOARD

STANDARDS

ADVISORY COMMITTEES

TECH. CMTEs

IECEE

IECQ

IECFx

CONFORMITY ASSESSMENT BOARD

IECEE

System for conformity testing and certification of Electrotechnical equipment and components

IECEX

Scheme for explosive environments

IECQ

Quality assessment system for electronic components

CB Scheme

Mutual recognition of test results

CB FCS (full certification, including assessing QMS & Factory Audit/Inspection)

**BOARD of
APPEAL**

**Policy & Strategy
Forum**

**Chairman's
Advisory
Group**

CMC

**Committee of
Testing
Laboratories CTL**

**Factory
Inspection
Committee
FIC**

**PAC
Peer
Assessment
Committee**

FIC

PAC

CTL



PAC - Peer Assessment Committee

- ▶ To monitor the Peer Assessment and Re-assessment programme
- ▶ To determine common understanding and approach on ISO/IEC Guide 65 and ISO/IEC 17025
- ▶ To legislate over Conformity Assessment issues for approval by the IEC Management Committee - CMC
- ▶ To evaluate the Assessment Reports of candidate NCBs and CBTLs and make recommendations to the IECEE Management Committee -CMC



Product Service



CTL - Committee of Testing Laboratories



Wolfgang Niedziella
CTL Chairman



John M. Tho
CTL Secretary

- **The technical branch of the IECCE**
- **Composed by experts from Worldwide Testing Laboratories**
- **Composed by experts from Worldwide Certification Bodies**
- **Achieve the necessary reproducibility of test results**
- **Agrees on uniform understanding of IEC Standards**
- **Agrees on common test methodologies**
- **Harmonize the design and use of the test equipment**
- **Organize Proficiency Testing Programmes**
- **Organize Workshops**

FIC - Factory Inspection Committee



Dr. Wolfgang Kreinberg
FIC Chairman



Dieter F.
FIC Sec

**The FIC is composed by experts in Factory Audits, Inspection
Follow up services**

**The FIC is the Factory Inspection Committee tasked to develop
Procedures and Audit/Inspection Forms to be used as either
stand alone service or as part of the CB Full Certification
Scheme.**

FIC - Factory Inspection Committee

To provide services related to Factory Audit/Inspection as a stand alone element of the Conformity Assessment Programme.

This Service can be used either as an element of the Supplier Declaration of Conformity SDoC or to upgrade a Certification System 1

into a

Certification System 5



Global Trade & Conformity Assessment

- Local – Regional – Global
- Conformity assessment, perceived slow, steady, bureaucratic
- Conformity assessment models were developed in isolation
- Due to increased global trade, manufacturers identified need to find improvements in efficiency and profitability

Global Trade & Conformity Assessment

- Factors creating barriers to success:
 - Limited harmonized standards
 - Multiple inspection / audits
 - Lack of uniform conformity assessment requirements
- New certification programs and marks developing

Market changes...increasing flow of goods



- **Global markets**
- **Increasing harmonization of product specification**
- **Worldwide acceptance of test results**

Time to Market is essential

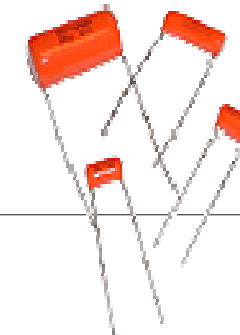
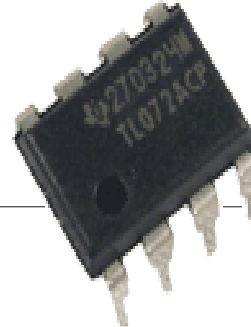
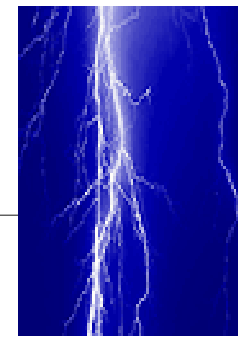
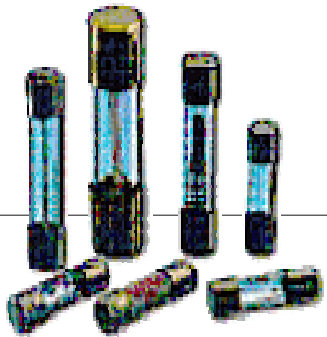
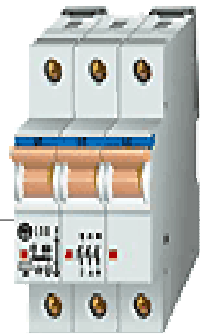
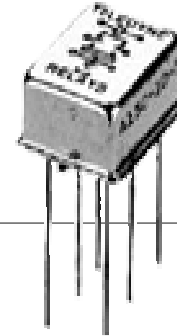
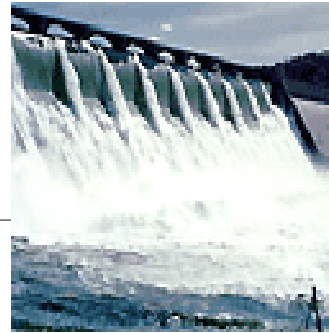
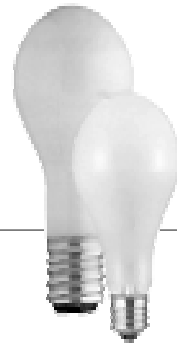
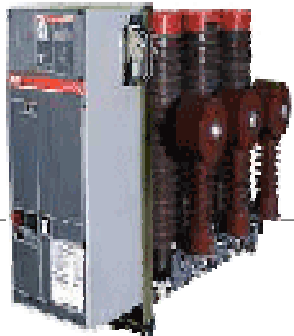


In manufacturing and trade every day counts

Buyers, Users and Governments need assurance of compliance



The scope of the CB Scheme

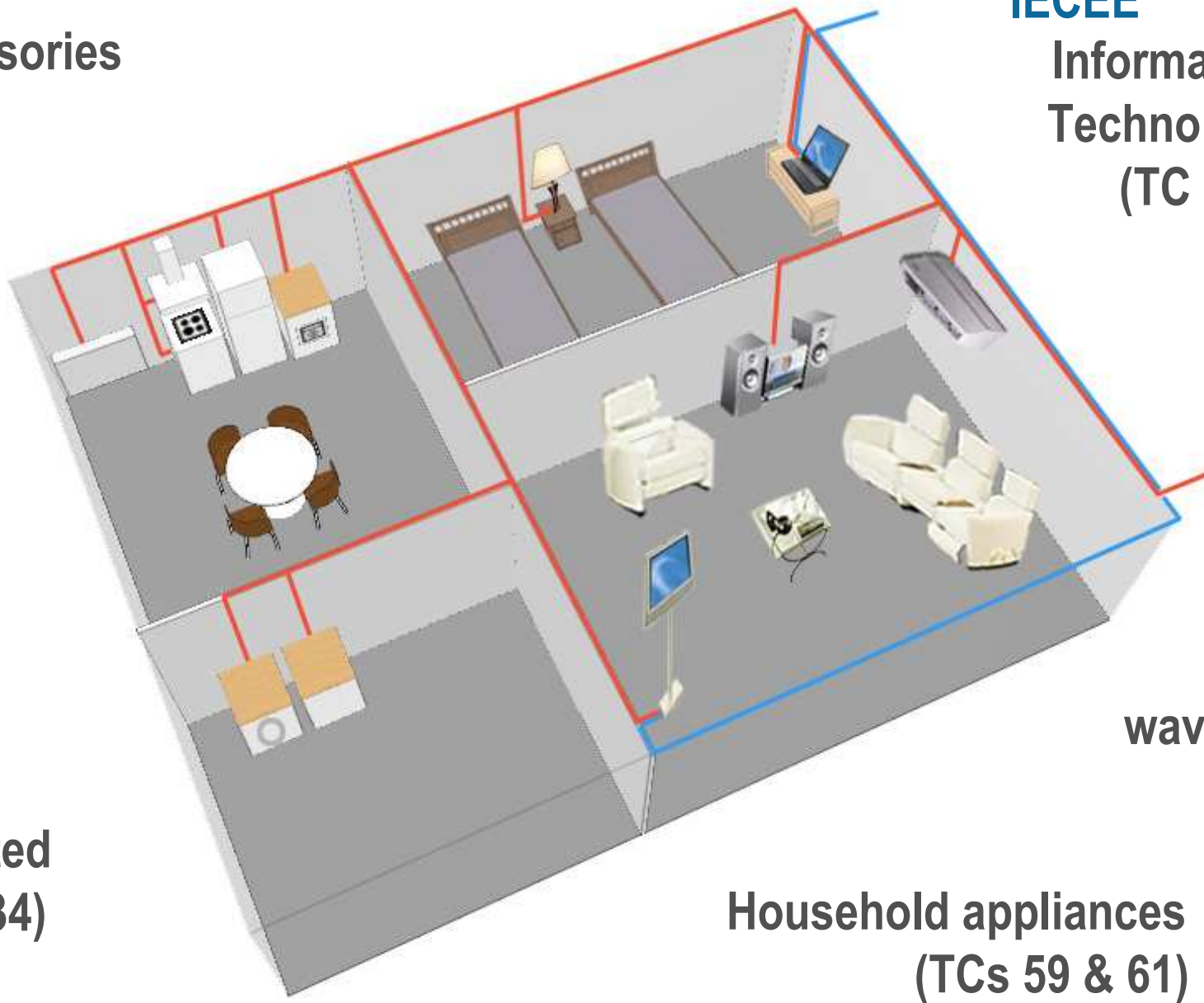


**Electrical accessories
(TC 23)**

**Luminaires
(TC 34)**

**Electric cables
(TC 20)**

**Lamps and related
equipment (TC 34)**



**Safety, Performance
IECEE**

**Information
Technology
(TC 108)**

**Multimedia
(TC 109)**

**Fibre optic
(TC 110)**

**Cables, waveguides
(TC 111)**

**Household appliances
(TCs 59 & 61)**

Custom Officers review the CB Test Certificate and CB Test Report and ...depending the country's organization they either grant access to the domestic market or their green light to the International Certification Body for further process





The CB FCS Scheme is an alternative to the CB Scheme and is based on the ISO/IEC System 5 Conformity Assessment. Compared to the CB Scheme (System 1) it implies, in addition, the Initial Factory Inspection, Factory surveillance inspection, re-testing, market control, etc.

Market access route via recognizing NCB

CB A
issuing



analyzing...

Conformity

Type test program

National differences (if applicable)

Report

National differences (if applicable)

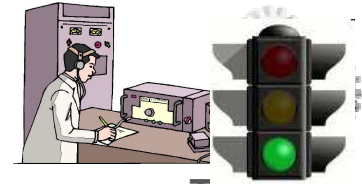


Factory Inspection

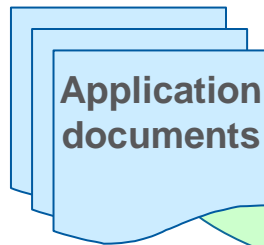
Test Report

National differences (if applicable)

Laboratory



Testing...



Application documents

APPLICANT

Conformity Assessment Certificate

Conformity Assessment Report

Factory Audit Report

National differences (if applicable)

Factory Audit Report



Auditing...

Vendors

NCB B1

NCB B2

15 working days

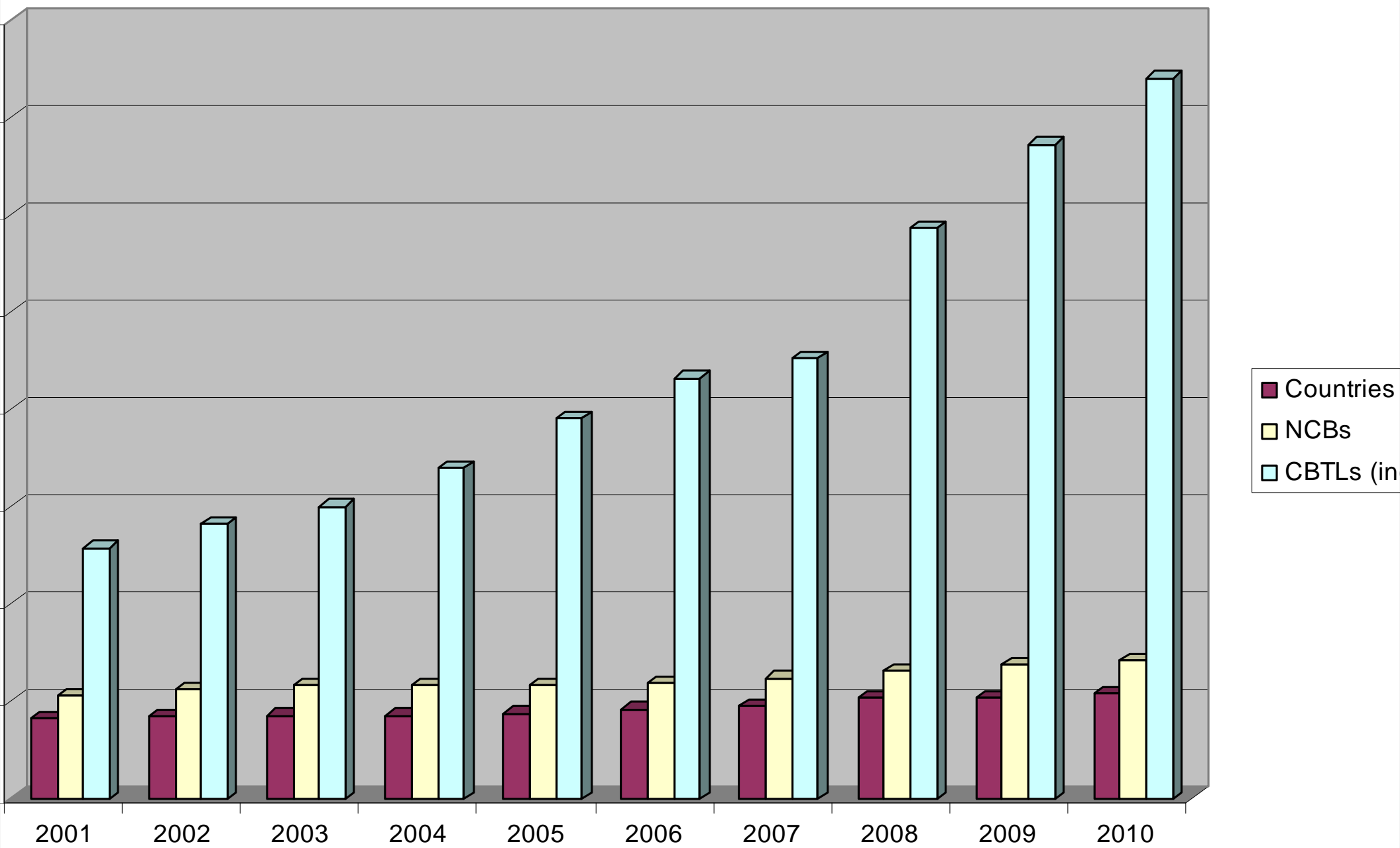
Regulators

Retailers



Argentina		Finland		Malaysia		Slovakia
Australia		France		Mexico		Slovenia
Austria		Germany		Netherlands		South Africa
Bahrain		Greece		New Zealand		Spain
Belarus		Hungary		Norway		Sweden
Belgium		India		Pakistan		Switzerland
Brazil		Indonesia		Poland		Thailand
Bulgaria		Ireland		Portugal		Turkey
Canada		Israel		Romania		Ukraine
China		Italy		Russia		United Arab Emirates
Colombia		Japan		Saudi Arabia		United Kingdom
Croatia		Kenya		Serbia		United States
Czech Rep.		Korea Rep. of		Singapore		Uruguay
Denmark		Libyan Arab Jamahiriya				

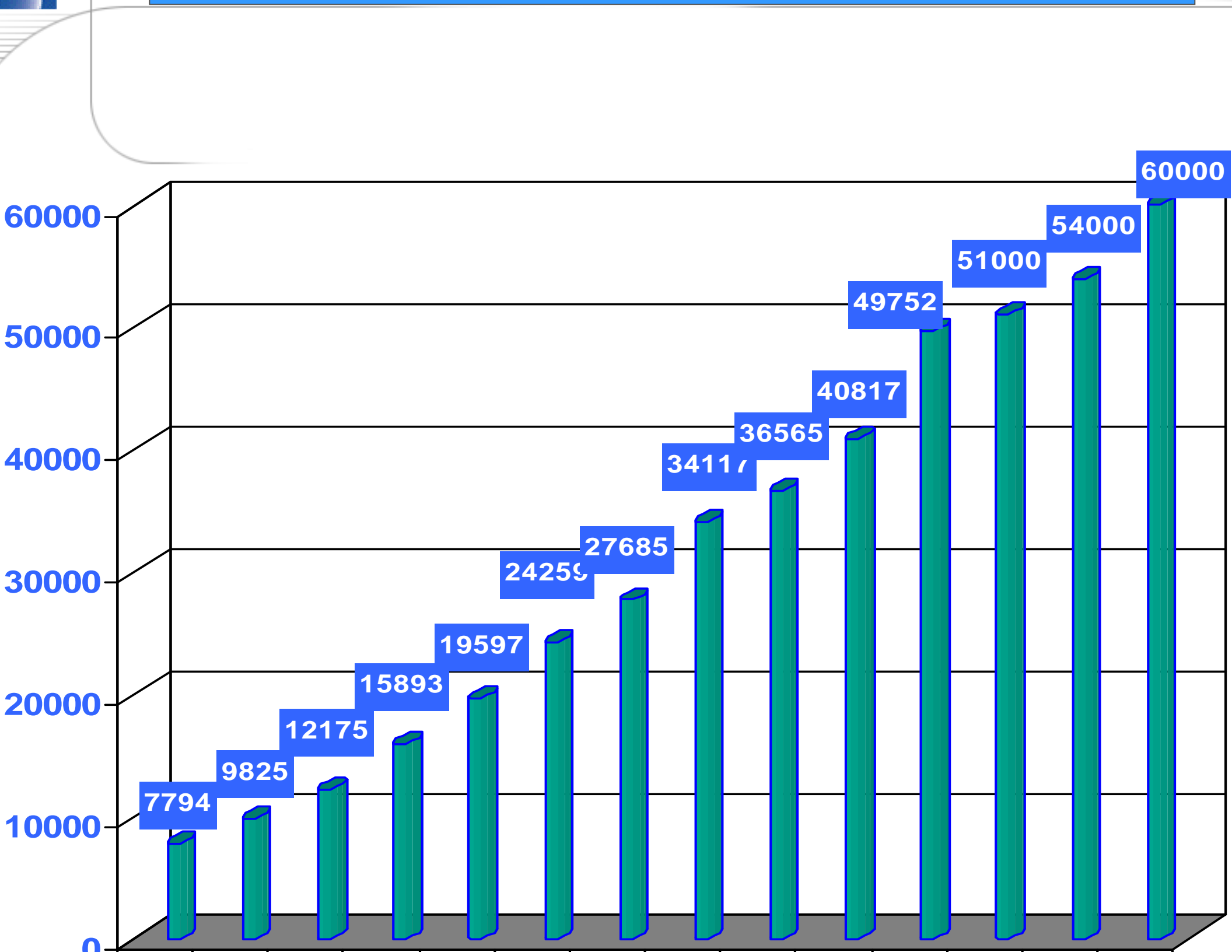
	Countries	NCBs	CBTLs	ACTLs
2001	41	53	129	0
2002	42	56	141	0
2003	43	58	150	0
2004	43	58	170	0
2005	44	58	195	0
2006	46	59	216	0
2007	50	62	234	10
2008	52	66	268	25
2009	52	69	302	34
2010	54	71	328	42





2009 has resulted in another great year with a significant growth with 60.000 CB Test Certificates issued.

A significant number of CB Test Certificates are directly recognized by Customs, Retailers and Regulatory Authorities to provide direct access to the global markets





Because Globalization and Competition are leading to rapid changes, technical barriers to trade remain a serious problem and the industry is anxious about time to market, the shortening life cycle of products and the need to reduce costs...

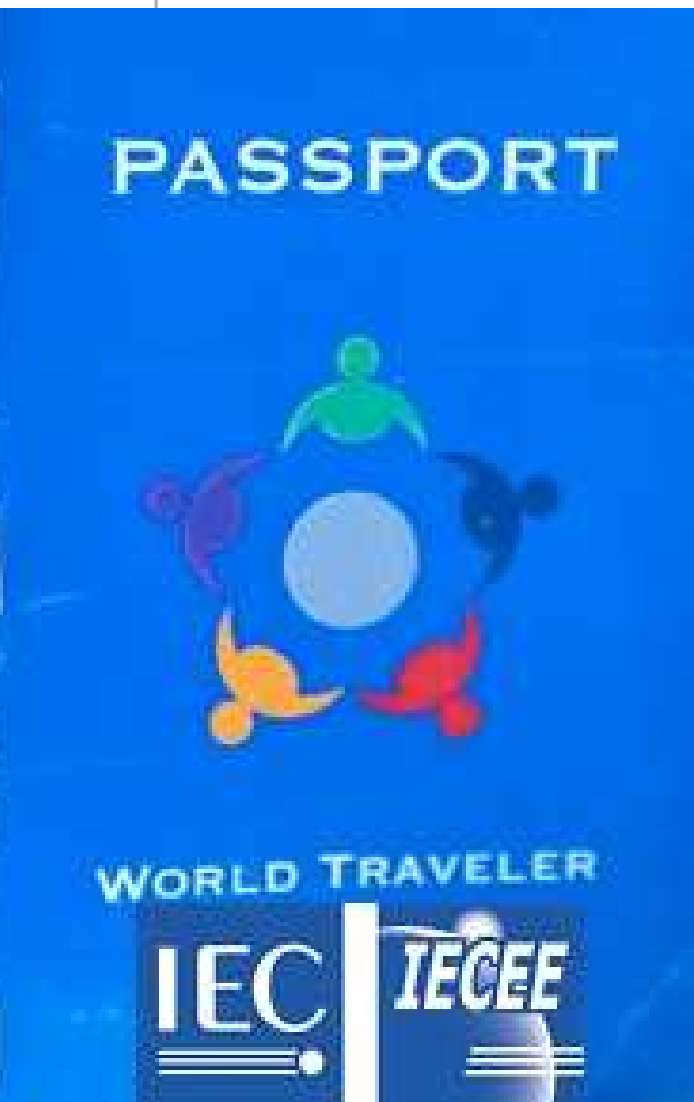
- 1. Protecting the Domestic Market from non-conforming products (junks) by importing safe IECCE certified electrical products, equipment and components**
- 2. Attending Forums and Workshops thus sharing and exchanging information with the best experts in Certification and Testing activities**
- 3. Building the structure to set a national level a Certification Body and Testing Laboratory fulfilling highest standards worldwide**



Opening up the worldwide Global Market

Optimization of production & certification costs

Expanded development of technologies within the c



The CB Scheme offers the true “passport” to market electrical goods worldwide through the use of...1 stop testing.

Thank you

any questions ?