China Compulsory Certification

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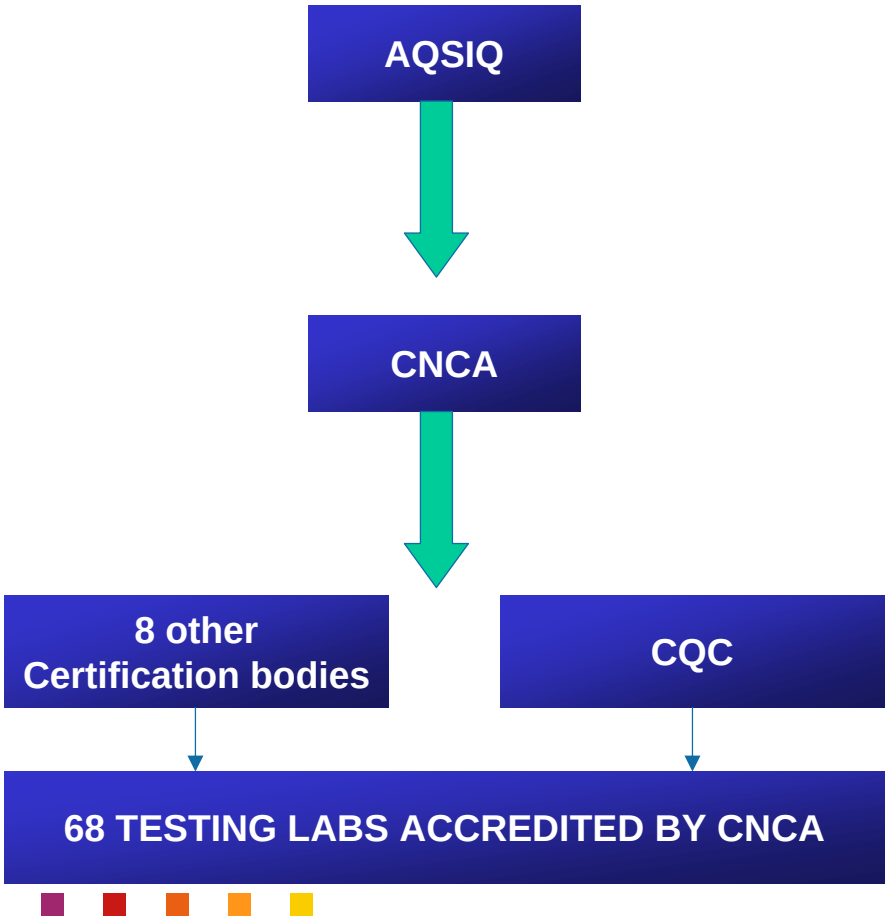
Overview

- Organization structure behind CCC and adoption
- Products effected
- Process overview
- Time Line and cost for typical project
- Agent Role in CCC certification
- Appendix A – Chinese standards vs IEC standards for select categories
- Handout – Complete First Catalogue of products subject to compulsory certification

International Approvals – China Compulsory Certification (CCC)

The Organization Structure

ORGANISATIONAL LEVEL



FUNCTION

AQSIQ — **State General Administration of the People's Republic of China for Quality Supervision and Inspection and Quarantine**
Law-enforcement administration organ of the State Council / Quality / Metrology / Entry-exit Commodities Inspection / Entry-exit Health Quarantine / Entry-exit Animal and Plant Quarantine

CNCA — **Certification and Accreditation Administration of the PRC**
Government agency / Administration and coordination of activities / Certification / Accreditation / Certification and Testing Market Supervision

CQC — **China Quality Certification Centre**
is an organisation in charge of the implementation of CCC certification.

LABS — ***Conduct testing.***

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CCC Adoption Timeline

April 30, 2002

Prior to this date products subjected to the old CCIB/CCEE system

Prior to this date products subjected to the old CCIB/CCEE system or new system can be marketed or imported

May 1, 2002

April 30, 2003

New system (CCC) implemented – applications under old system no longer accepted

Old system annulled

May 1, 2003

Products subjected to the new system, domestic and imported must have CCC certification mark applied

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China's Previous System

- **CCIB Mark**

  Safety license mark, first put in place in 1989, with 9 product categories, expanded to 47 product categories in 1996/1997

- **Great Wall or CCEE Mark**

  Electrical safety license mark, put in place in late 1990s, with seven product categories.

International Approvals – China Compulsory Certification (CCC)

- **Prior two-mark system**
  - **Redundant, burdensome, and not WTO compliant**
  - **Some imports needed both marks; Some domestic products required less burdensome or no licensing**
- **WTO Rules**
  - **For all mandatory standards and testing rules, a country must ensure:**
    - **National Treatment - domestic products and imports must be treated the same**
    - **Transparency - publication and availability of laws, regulations, and mandatory standards**

The Good News

- Transparency now required by WTO
  - Detailed technical regulations are public
  - The public can comment on new rules
  - A WTO National Enquiry Point fields enquiries
- A level playing field with domestic goods
- Redundancies have been reduced

  Some still exist, e.g. medical devices and IT/telecom
- Trade barriers can now be addressed at WTO
- WTO pushes China toward internationalization of standards and testing

The Bad News

- Still some of the most burdensome rules of any major trading nation
  - In-country testing; factory inspections
- Redundancies remain
- Chinese Regulatory Practices
  - Vague regulations
  - Reliance on dialogue between testers or regulators and applicants, instead of specific written rules
  - Local regulators or customs officials have great autonomy

Compulsory Scope Summary (See handout for complete “First Catalogue of Products Subject to Compulsory certification”)

1) Electrical wires and cables
2) Switches for circuits, Installation protective and connection devices
3) Low-voltage Electrical Apparatus
4) Small power motors
5) Electric tools
6) Welding machines
7) Household and similar electrical appliances
8) Audio and video apparatus
9) Information technology equipment (IT)
10) Lighting apparatus
11) Telecommunication terminal equipment

Compulsory Scope Summary (See handout for complete “First Catalogue of Products Subject to Compulsory certification”)

12) Motor vehicles and Safety parts

13) Motor vehicle tires

14) Safety Glasses

15) Agricultural Machinery

16) Latex Products

17) Medical Devices

18) Fire Fighting Equipment

19) Detectors for Intruder Alarm Systems

Standards for Testing and the CB Scheme (Electrical Products)

1) CB Scheme – One testing program – able to obtain certification in 42 countries
2) Testing based on harmonized IEC standards
3) Appendix A – Comparison List of Chinese standard vs IEC standards

International Approvals – China Compulsory Certification (CCC)

Appendix A Chinese standards v.s. IEC standards (item 3) e.g. Low-voltage Electrical Apparatus (to be continued)

Categories	Chinese Standards	IEC Standards	Note
Installation protective equipment (Residual current operated circuit-breakers with over-current protection for household and similar use – RCCB)	GB16917.1-1997 GB16917.21-1997 GB16917.22-1997	IEC1009-1:1991 IEC1009-2-1:1991 IEC1009-2-2:1991	idt idt idt
Installation protective equipment (Residual current operated protective devices)	GB6829-1995	IEC60755	idt
Installation protective equipment (Portable residual current protective devices)	JB8755-1998	-	-
Installation protective equipment (Residual current operated protective relays)	JB8756-1998	-	-

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The CCC Markings

According to the approval, the following letters will be added to the core design

Only safety - core mark with S (small capital letter) in right corner

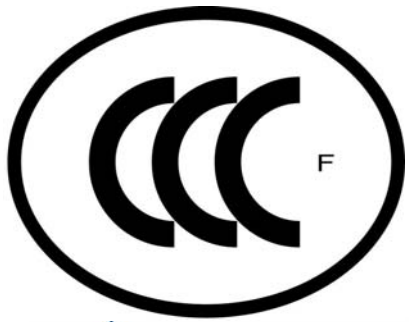
Safety + EMC - core mark with S&E in right corner

The CCC Markings (cont)

According to the approval, the following letters will be added to the core design

EMC - core mark with E (small capital letter) in right corner

Fire safety - core mark with F in right corner
Applies for fire warning and fighting appliances



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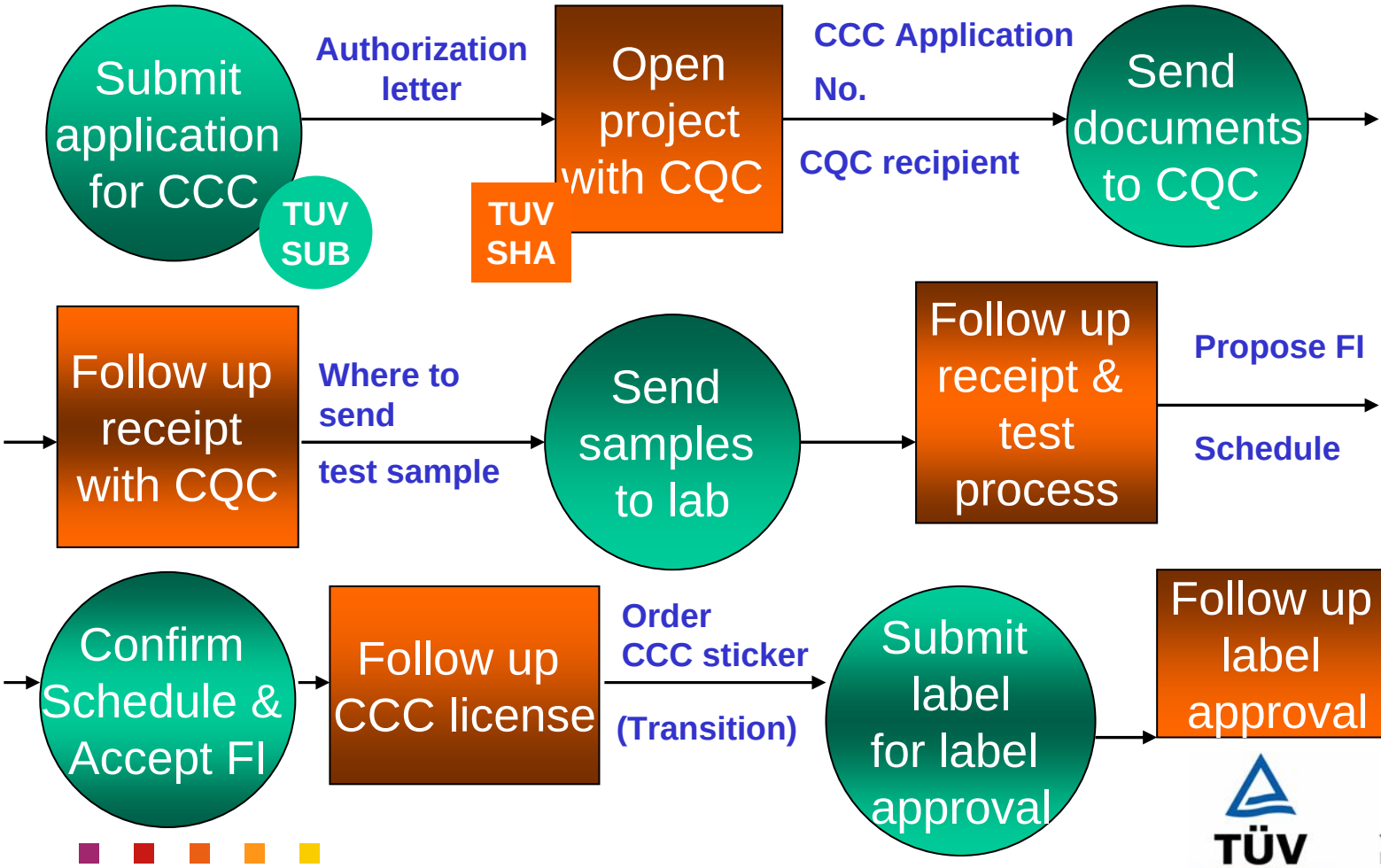
General Procedure (example categories 7 and 8)



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Documentation Required (example categories 7 and 8)

- Authorization letter/ Application letter.
- Where available - CB test report which addresses applicable Chinese National Deviations (rated voltage 220V ± 10%).
- Declaration of conformity complying to relevant GB Standards.
- Critical component lists related to safety and EMC
- Description of the difference between the different model/type of products in the same application.
- Service manual or user's manual in Chinese.
- Nameplate and warnings in Chinese.
- Circuit diagrams and/or system block diagrams.
- Electronic copy of photo documentation.
- Questionnaire for initial FI or the latest FI report

Samples Required (example categories 7 and 8)

- Two samples
- One for EMC Testing
- One for safety
- Required regardless of testing already conducted

Typical Costs (example categories 7 and 8)

CCC Testing and Evaluation	$3000-10000
Factory Inspection	$2000-5000
Travel Expenses for Factory Inspection	As occurred
Third Party Agency Fees	30-80%

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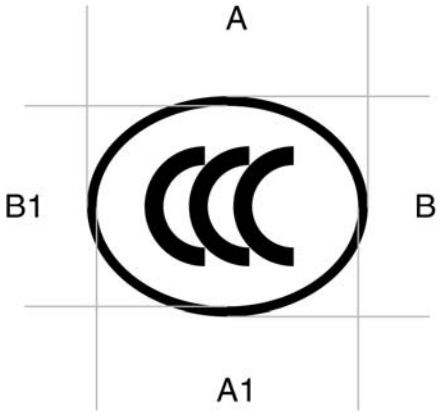
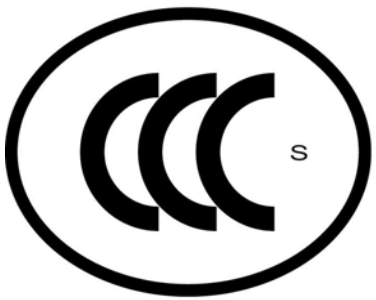
CCC Mark on the product



(Basic CCC mark)



(CCC mark for safety)

- In transitional period after getting CCC license, Order to CNCA for CCC black/white sticker:
  - A = 8mm (US$42 / 5000 pcs/min package)
  - A = 15mm (US$76 / 4500 pcs/min package)
  - A = 30mm (US$51 / 1500 pcs/min package)
  - A = 45mm (US$27 / 450 pcs/min package)
  - A = 60mm (US$30 / 450 pcs/min package)

- Applying for nameplate approval, Submit to CNCA 10 samples of nameplate with required CCC mark and CCC license No (factory code) under the mark

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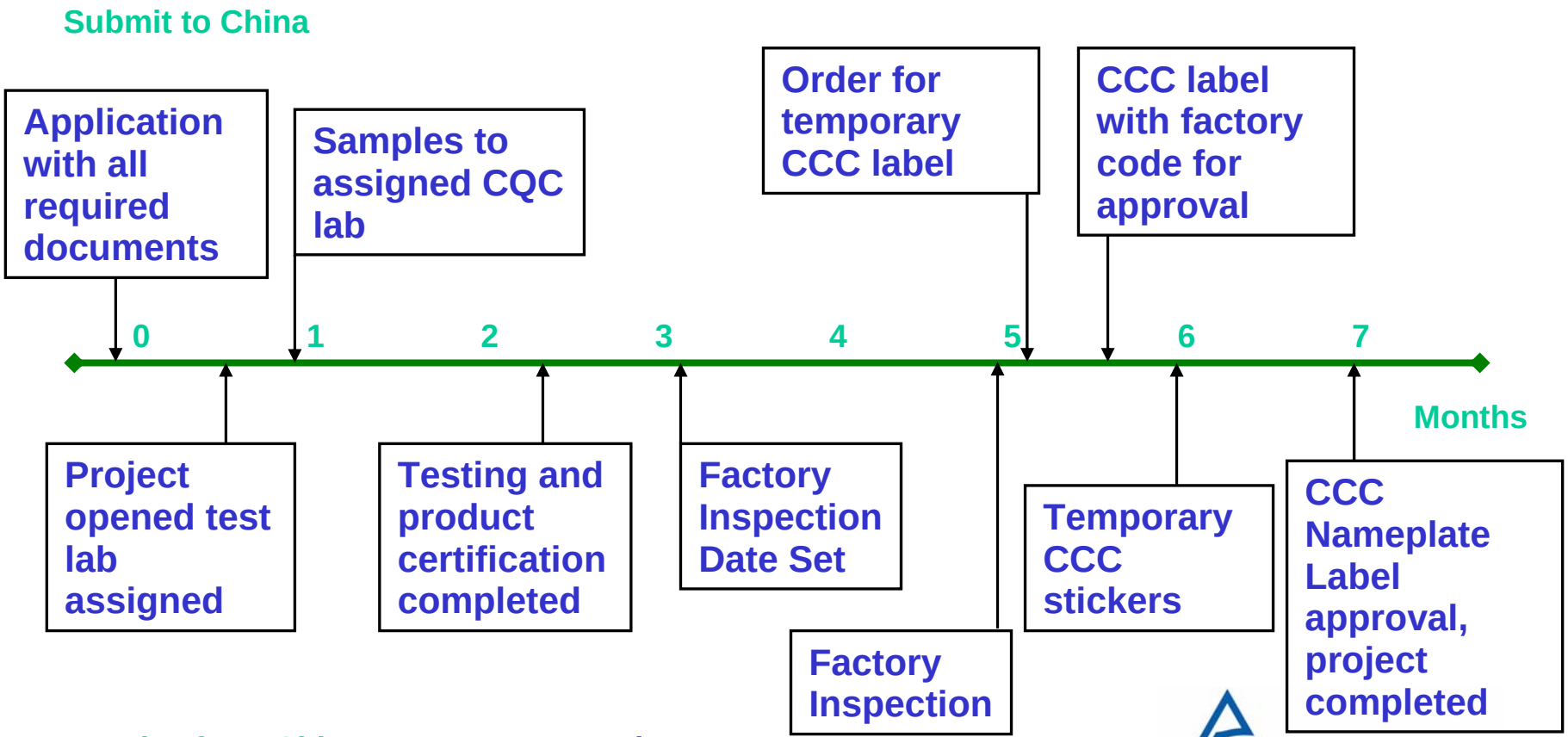
CCC Certification Timeline Example



Receive from China

Notes to example
- US Factory
- First Time approval
- All doc complete, CB report available

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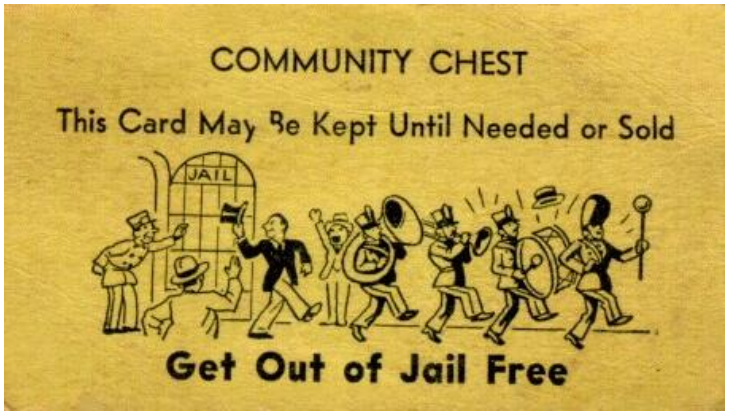
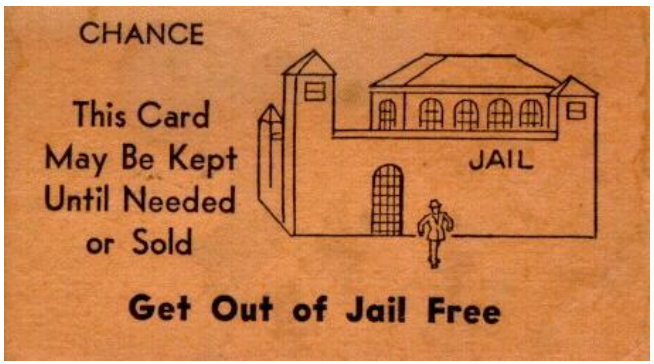
Official websites

- **http://www.aqsiq.gov.cn**
- **http://www.cnca.gov.cn**
- **http://www.cqc.com.cn**

CCC Exemptions





- Possible to obtain for certain conditions
  - Products/components for re-export
  - Products not placed on the market
  - Products used in a manufacturing facility
  - Exemptions completed in China by local representative
- Not required to complete exemption if product not on First Catalog
- US DOC – Monthly filing
- US DOC – Process Not finalized

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CCC Pitfalls

- Commitment to the Market
  - Realistic expectations
  - Long-run not short term
- Localization time
  - Product 220V, 50Hz
  - Manuals/Markings
  - Software
  - User Interface
- Non-compliant product provided for testing

Typical CCC Agent service

- Testing evaluation/CB report to applicable standard
- Handling and proceeding the formal/legal application with the relevant government agency .
- Providing assistance with the documentation review process.
- Arranging the sample testing with the appointed localized laboratory.
- Coordinating the auditing of the production facility
- Facilitating the issuance of the applicable certificate
- Executing the mandatory marking requirement application

International Approvals – China Compulsory Certification (CCC)

- **1872** Founding on behalf of industry - Testing of Pressure Vessels
- **1905** The first Automobiles were tested
- **1967** The first subsidiary in Germany
- **1970** The first international subsidiary
- **1997** Merger of TÜV Rheinland and TÜV Berlin-Brandenburg
- **1997** Over 1 Billion DM in sales
- **2000** The 140th international office opens in Vietnam

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Questions

Thank you

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Appendix A Chinese standards v.s. IEC standards (item 1)
e.g. Electrical wires and cables

Categories	Chinese Standards	IEC Standards	Note
Polyvinyl chloride insulated cables of rated voltages up to and including 450/750V	GB5023.1-1997 GB5023.2-1997 GB5023.3-1997 GB5023.4-1997 GB5023.5-1997 GB5023.6-1997 GB5023.7-1997	IEC60227-1:1993 IEC60227-2:1997 IEC60227-3:1993 IEC60227-4:1992 IEC60227-5:1997 IEC60227-6:1995 IEC60227-7:1995	eqv eqv eqv eqv eqv eqv eqv
Rubber insulated cables of rated voltages up to and including 450/750V	GB5013.1-1997 GB5013.2-1997 GB5013.3-1997 GB5013.4-1997 GB5013.5-1997 GB5013.6-1997 GB5013.7-1997	IEC60245-1:1994 IEC60245-2:1994 IEC60245-3:1994 IEC60245-4:1994 IEC60245-5:1994 IEC60245-6:1994 IEC60245-7:1994	eqv eqv eqv eqv eqv eqv eqv

Appendix A Chinese standards v.s. IEC standards (item 2)
e.g. Switches for circuits installation protective and connection devices

Categories	Chinese Standards	IEC Standards	Note
Switches for household and similar fixed-electrical installations	GB16915.1-1997	IEC60669-1:1993	eqv
Enclosures for accessories for household and similar fixed electrical installations	GB17466-1998	IEC60670:1989	eqv
Plugs, socket-outlets and couplers for industrial purposes	GB11918-1989 GB11919-1989	IEC60309-1:1979 IEC60309-2:1981	eqv eqv
Appliance couplers for household and similar general purposes	GB17465.1-1998 GB17465.2-1998	IEC60320-1:1994 IEC60320-2-2:1990	eqv eqv

Appendix A Chinese standards v.s. IEC standards (item 2)
e.g. Switches for circuits installation protective and connection devices (to be continued)

Categories	Chinese Standards	IEC Standards	Note
Miniature fuse-links Cartridge fuse-links Sub-miniature fuse-links	GB9364.1-1997 GB9364.2-1997 GB9364.3-1997	IEC60127-1:1988 IEC60127-2:1989 IEC60127-3:1988	eqv eqv eqv
Thermal-links	GB9816-1998	IEC60691:1993	eqv
Plugs and socket-outlets for household and similar purposes	GB2099.1-1996 GB2099.2-1997	IEC60884-1:1994 IEC60884-2-2:1989	eqv eqv

International Approvals – China Compulsory Certification (CCC)

Appendix A Chinese standards v.s. IEC standards (item 3)
e.g. Low-voltage Electrical Apparatus

Categories	Chinese Standards	IEC Standards	Note
Low-voltage circuit-breakers	GB14048.2-1994	IEC60947-2:1988	eqv
Low-voltage switch, disconnectors, switch-disconnectors and fuse-combination units	GB14048.3-1993	IEC60947-3:1990	eqv
Low-voltage electromechanical contactors and motor starters	GB14048.4-1993	IEC60947-4-1:1990	eqv
Control circuit devices and switching elements (Control circuit devices)	GB14048.5-1994	IEC60947-5-1:1990	eqv
Contactors and motor starters (AC semi-conductors, motor control devices and starters)	GB14048.6-1994	IEC60947-4-2:1995	idt
Multi-functional electrical device (Control and protective electrical devices)	GB14048.9-1998	IEC60947-6-2:1992	idt

Appendix A Chinese standards v.s. IEC standards (item 3) e.g. Low-voltage Electrical Apparatus (to be continued)

Categories	Chinese Standards	IEC Standards	Note
Control circuit devices and switch elements (Proximity switches)	GB14048.10-1999	IEC60947-5-2:1992	idt
Circuit-breakers for equipment	GB17701-1999	IEC60934:1993	idt
Electro-mechanical contactors for household and similar uses	GB17885-1999	IEC61095:1992	idt
Low-voltage switchgear and controlgear assemblies	GB7251.1-1997 GB7251.2-1997 GB7251.3-1997 GB7251.4-1998 GB7251.5-1998	IEC60439-1:1992 IEC60439-2:1987 IEC60439-3:1990 IEC60439-4:1995 IEC60439-5:1996	idt idt idt idt idt
Installation protective equipment (Residual current operated circuit-breakers without over-current protection for household and similar use	GB16916.1-1997 GB16916.21-1997 GB16916.22-1997	IEC1008-1:1990 IEC1008-2-1:1990 IEC1008-2-2:1990	idt idt idt

International Approvals – China Compulsory Certification (CCC)

Appendix A Chinese standards v.s. IEC standards (item 3) e.g. Low-voltage Electrical Apparatus (to be continued)

Categories	Chinese Standards	IEC Standards	Note
Installation protective equipment (Residual current operated circuit-breakers with over-current protection for household and similar use – RCCB)	GB16917.1-1997 GB16917.21-1997 GB16917.22-1997	IEC1009-1:1991 IEC1009-2-1:1991 IEC1009-2-2:1991	idt idt idt
Installation protective equipment (Residual current operated protective devices)	GB6829-1995	IEC60755	idt
Installation protective equipment (Portable residual current protective devices)	JB8755-1998	-	-
Installation protective equipment (Residual current operated protective relays)	JB8756-1998	-	-

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Appendix A Chinese standards v.s. IEC standards (item 3) e.g. Low-voltage Electrical Apparatus (to be continued)

Categories	Chinese Standards	IEC Standards	Note
Installation protective equipment (Over-current protective circuit-breakers for household and similar uses)	GB10963-1999	IEC60898:1995	idt
Installation protective equipment (Low-voltage fuses)	GB13539.1-1992 GB13539.2-1992 GB13539.3-1999 GB13539.4-1992 GB13539.5-1999	IEC60269-1 IEC60269-2 IEC60269-3 IEC60269-4 IEC60269-5	ref ref ref ref ref

International Approvals – China Compulsory Certification (CCC)

Appendix A Chinese standards v.s. IEC standards (item 5)
e.g. Electric tools

Categories	Chinese Standards	IEC Standards	Note
Drills (including impact drills)	GB3883.1-2000 GB3883.6-1991 GB17625.1-1998 GB4343-1995	IEC60745-1:1997 IEC60745-2-1:1989 IEC61000-3-2: 1995 CISPR14-1:1993	eqv eqv eqv eqv
Screwdrivers and impact wrenches	GB3883.1-2000 GB3883.2-1991 GB17625.1-1998 GB4343-1995	IEC60745-1:1997 IEC60745-2-2:1982 IEC61000-3-2: 1995 CISPR14-1:1993	eqv eqv eqv eqv
Electric grinders	GB3883.1-2000 GB3883.3-1991 GB17625.1-1998 GB4343-1995	IEC60745-1:1997 IEC60745-2-3:1984 IEC61000-3-2: 1995 CISPR14-1:1993	eqv eqv eqv eqv
Sander	GB3883.1-2000 GB3883.4-1991 GB17625.1-1998 GB4343-1995	IEC60745-1:1997 IEC60745-2-4:1983 IEC61000-3-2: 1995 CISPR14-1:1993	eqv eqv eqv eqv

Appendix A Chinese standards v.s. IEC standards (item 5) e.g. Electric tools (to be continued)

Categories	Chinese Standards	IEC Standards	Note
Circular saws	GB3883.1-2000 GB3883.5-1998 GB17625.1-1998 GB4343-1995	IEC60745-1:1997 IEC60745-2-5:1993 IEC61000-3-2: 1995 CISPR14-1:1993	eqv eqv eqv eqv
Electric hammers (including electric pickax)	GB3883.1-2000 GB3883.7-1991 GB17625.1-1998 GB4343-1995	IEC60745-1:1997 IEC60745-2-6:1989 IEC61000-3-2: 1995 CISPR14-1:1993	eqv eqv eqv eqv
Spray guns for non-flammable liquid	GB3883.1-2000 GB3883.13-1992 GB17625.1-1998 GB4343-1995	IEC60745-1:1997 IEC60745-2-7:1989 IEC61000-3-2: 1995 CISPR14-1:1993	eqv eqv eqv eqv
Electric scissors (including electric scissors for double-edged blades, electric impact scissors)	GB3883.1-2000 GB3883.8-1991 GB17625.1-1998 GB4343-1995	IEC60745-1:1997 IEC60745-2-8:1982 IEC61000-3-2: 1995 CISPR14-1:1993	eqv eqv eqv eqv

Appendix A Chinese standards v.s. IEC standards (item 5) e.g. Electric tools (to be continued)

Categories	Chinese Standards	IEC Standards	Note
Electric tapping machine	GB3883.1-2000 GB3883.9-1991 GB17625.1-1998 GB4343-1995	IEC60745-1:1997 IEC60745-2-9:1984 IEC61000-3-2: 1995 CISPR14-1:1993	eqv eqv eqv eqv
Reciprocating saws (including jig saw and sabre saws)	GB3883.1-2000 GB3883.11-1991 GB17625.1-1998 GB4343-1995	IEC60745-1:1997 IEC60745-2-11:1984 IEC61000-3-2: 1995 CISPR14-1:1993	eqv eqv eqv eqv
Internal concrete vibrators	GB3883.1-2000 GB3883.12-1991 GB17625.1-1998 GB4343-1995	IEC60745-1:1997 IEC60745-2-12:1984 IEC61000-3-2: 1995 CISPR14-1:1993	eqv eqv eqv eqv
Electric chain saws	GB3883.1-2000 GB3883.14-1993 GB17625.1-1998 GB4343-1995	IEC60745-1:1997 IEC60745-2-13:1989 IEC61000-3-2: 1995 CISPR14-1:1993	eqv eqv eqv eqv

Appendix A Chinese standards v.s. IEC standards (item 5) e.g. Electric tools (to be continued)

Categories	Chinese Standards	IEC Standards	Note
Electric planer	GB3883.1-2000 GB3883.10-1991 GB17625.1-1998 GB4343-1995	IEC60745-1:1997 IEC60745-2-14:1984 IEC61000-3-2: 1995 CISPR14-1:1993	eqv eqv eqv eqv
Electric edge trimmer and Electric grass shears	GB3883.1-2000 GB3883.15-1991 GB17625.1-1998 GB4343-1995	IEC60745-1:1997 IEC60745-2-15:1984 IEC61000-3-2: 1995 CISPR14-1:1993	eqv eqv eqv eqv
Electric routers and Edge trimmer	GB3883.1-2000 GB3883.17-1993 GB17625.1-1998 GB4343-1995	IEC60745-1:1997 IEC60745-2-17:1989 IEC61000-3-2: 1995 CISPR14-1:1993	eqv eqv eqv eqv
Electric stone cutters (including Marble cutters)	GB3883.1-2000 GB3883.18-1995 GB17625.1-1998 GB4343-1995	IEC60745-1:1997 - IEC61000-3-2: 1995 CISPR14-1:1993	eqv - eqv eqv

Appendix A Chinese standards v.s. IEC standards (item 7)
e.g. Household and similar electrical appliances

Categories	Chinese Standards	IEC Standards	Note
Household refrigerator, Food freezer	GB4706.1-1992 GB4706.13-1998 GB4343-1995 GB17625.1-1998	IEC335-1 : 1976 IEC335-2-24 : 1992 CISPR14-1 : 1993 IEC61000-3-2 : 1995	eqv idt eqv eqv
Electric fan	GB4706.1-1992 GB4706.27-1992 GB4343-1995 GB17625.1-1998	IEC335-1 : 1976 IEC342-1 : 1981 CISPR14-1 : 1993 IEC61000-3-2 : 1995	eqv idt eqv eqv
Air-conditioner	GB4706.1-1992 GB4706.32-1996 GB4343-1995 GB17625.1-1998	IEC335-1 : 1976 IEC335-2-40 : 1995 CISPR14-1 : 1993 IEC61000-3-2 : 1995	eqv eqv eqv eqv
Motor-compressors	GB4706.1-1992 GB4706.17-1996	IEC335-1 : 1976 IEC335-2-34 : 1980	eqv eqv
Storage water heaters	GB4706.1-1992 GB4706.12-1995	IEC335-1 : 1976 IEC335-2-21 : 1989	eqv neq

International Approvals – China Compulsory Certification (CCC)

Appendix A Chinese standards v.s. IEC standards (item 7)
e.g. Household and similar electrical appliances (to be continued)

Categories	Chinese Standards	IEC Standards	Note
Washing machines	GB4706.1-1998 GB4706.24-2000 GB4706.20-2000 GB4706.26-2000 GB4343-1995 GB17625.1-1998	IEC335-1 : 1991 IEC335-2-7 : 1993 IEC335-2-11 : 1993 IEC335-2-4 : 1993 CISPR14-1 : 1993 IEC61000-3-2 : 1995	eqv eqv idt eqv eqv eqv
Room heaters	GB4706.1-1992 GB4706.23-1996	IEC335-1 : 1976 IEC335-2-30 : 1990	eqv eqv
Vacuum cleaners	GB4706.1-1998 GB4706.7-1999 GB4343-1995 GB17625.1-1998	IEC335-1 : 1991 IEC335-2-2 : 1993 CISPR14-1 : 1993 IEC61000-3-2 : 1995	eqv idt eqv eqv
Instantaneous water heater	GB4706.1-1992 GB4706.11-1997	IEC335-1 : 1976 IEC335-2-35 : 1991	eqv idt

Appendix A Chinese standards v.s. IEC standards (item 7)
e.g. Household and similar electrical appliances (to be continued)

Categories	Chinese Standards	IEC Standards	Note
Appliances for skin and hair care	GB4706.1-1992 GB4706.15-1996 GB4343-1995 GB17625.1-1998	IEC335-1 : 1976 IEC335-2-23 : 1986 CISPR14-1 : 1993 IEC61000-3-2 : 1995	eqv ref eqv eqv
Electric irons	GB4706.1-1992 GB4706.2-1996 GB4343-1995 GB17625.1-1998	IEC335-1 : 1976 IEC335-2-3 : 1986 CISPR14-1 : 1993 IEC61000-3-2 : 1995	eqv ref eqv eqv
Electromagnetic ovens	GB4706.1-1992 GB4706.29-1992	IEC335-1 : 1976 IEC335-2-31 : 1979	eqv ref
Roasters	GB4706.1-1992 GB4706.14-1999	IEC335-1 : 1976 IEC335-2-9 : 1993	eqv idt
Electric food processors	GB4706.1-1992 GB4706.30-1992	IEC335-1 : 1976 IEC335-2-14 : 1984	eqv eqv

Appendix A Chinese standards v.s. IEC standards (item 7)
e.g. Household and similar electrical appliances (to be continued)

Categories	Chinese Standards	IEC Standards	Note
Microwave ovens	GB4706.1-1992 GB4706.21-1996	IEC335-1 : 1976 IEC335-2-25 : 1993	eqv ref
Cooking ranges / cooking table / Ovens and similar appliances	GB4706.1-1992 GB4706.22-88	IEC335-1 : 1976 IEC335-2-6 : 1986	eqv eqv
Range hoods	GB4706.1-1998 GB4706.28-1999	IEC335-1 : 1991 IEC335-2-31 : 1995	eqv idt
Appliances for heating liquids	GB4706.1-1998 GB4706.19-1999	IEC335-1 : 1991 IEC335-2-15 : 1995	eqv idt
Electric rice cookers	GB4706.1-1992 GB4706.6-1995 GB4343-1995 GB17625.1-1998	IEC335-1 : 1976 - CISPR14-1 : 1993 IEC61000-3-2 : 1995	eqv - eqv eqv
Water dispensers	GB4706.1-1998 GB4706.42-1999	IEC335-1 : 1991 IEC335-2-75 : 1995	eqv eqv

International Approvals – China Compulsory Certification (CCC)

Appendix A Chinese standards v.s. IEC standards (item 8)
e.g. Audio and video apparatus

Categories	Chinese Standards	IEC Standards	Note
Power sound boxes with signal or multiple speakers and under 500W (R.M.S.) max output sound power Sound Amplifiers Radio receivers Tuners Audio/Video recorder/player/dealer with kinds of carrier media - Cassette tape recorder/player - Disc player - CD/MD player - LD/VCD/Super VCD/DVD player - MP3 record/player - Language learning player - Audio/Video processing apparatus - etc.	GB8898-1997 GB13837-1997 GB17625.1-1998 GB13836-2000	IEC60065:1985 CISPR13:1996 IEC61000-3-2: 1995 IEC60728-2/FDIS: 1997	idt eqv eqv neq

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Appendix A Chinese standards v.s. IEC standards (item 9) e.g. Information technology equipment (IT)

Categories	Chinese Standards	IEC Standards	Note
Switching power supply units for computer and adapters, chargers Personal computers (PC) Portable personal computers Display units connected with computer Printers connected with computer Multiple printer & copying machines Scanners Duplicators Servers	GB4943-1995 GB9254-1998 GB17625.1-1998	IEC60950:1991 CISPR22:1997 IEC61000-3-2: 1995	idt eqv eqv
Computer game players Learning machine	GB4943-1995	IEC60950:1991	idt
Finance and trade settlement devices (Elec. Price meter, IC card reader, Banknote counter)	GB9254-1998	CISPR22:1997	eqv

International Approvals – China Compulsory Certification (CCC)

Appendix A Chinese standards v.s. IEC standards (item 10)
e.g. Lighting apparatus

Categories	Chinese Standards	IEC Standards	Note
Luminaries (recessed, fixed, portable) (36V < electric power source < 1000V)	GB7000.1-1996 GB7000.10-1999 GB7000.11-1999 GB7000.12-1999 GB17743-1999 GB17625.1-1998	IEC60598-1:1992 IEC60598-2-1:1979 IEC60598-2-4:1997 IEC60598-2-2:1997 CISPR15:1996 IEC61000-3-2: 1995	Idt idt idt idt idt eqv
Ballasts AC supplied electronic ballasts for tubular fluorescent lamp (electric power source < 1000V)	GB2313-1993 GB15143-1994 GB14045-1993 GB17743-1999 GB17625.1-1998	IEC60920:1990 IEC60928 :1990 IEC60922:1989 CISPR15:1996 IEC61000-3-2: 1995	idt idt idt idt eqv

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