

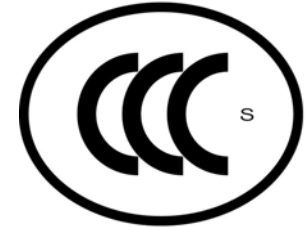
International Approvals – China Compulsory Certification (CCC)



China Compulsory Certification



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Overview

China Market

Organization structure behind CCC and adoption

Products effected /Process overview

Time Line and cost for typical project

TUV Role in CCC certification

Exemptions

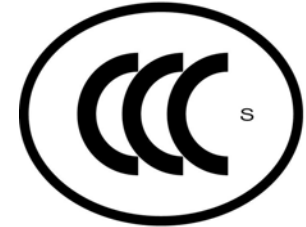
Beyond CCC Approval

Appendix A – Chinese standards vs IEC standards for select categories

Handout – Complete First Catalogue of products subject to compulsory certification

Handout – HS Codes





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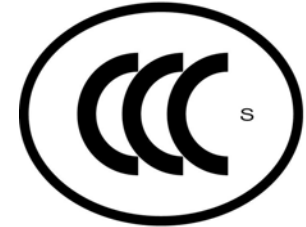
China market overview (US DOC Data)

- **US Exports to China \$22 billion (2002)**
 - **DOC estimates about \$3.5 billion of US exports are of CCC-covered products**
- **China is our 9th largest export market.**
- **China GDP growth 7-8%; \$1 trillion plus**
- **US exports to China up 27%**
- **US exports to China doubled since 1990**
- **China exports to US up 35%**



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Creation of CCC mark

- **Prior two-mark system**
 - Redundant, burdensome, and not WTO compliant
 - Some imports needed both marks



- **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



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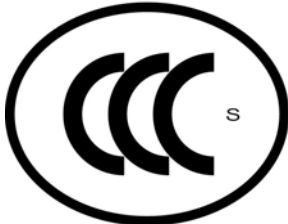


WTO

- **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 international harmonization of standards and testing**



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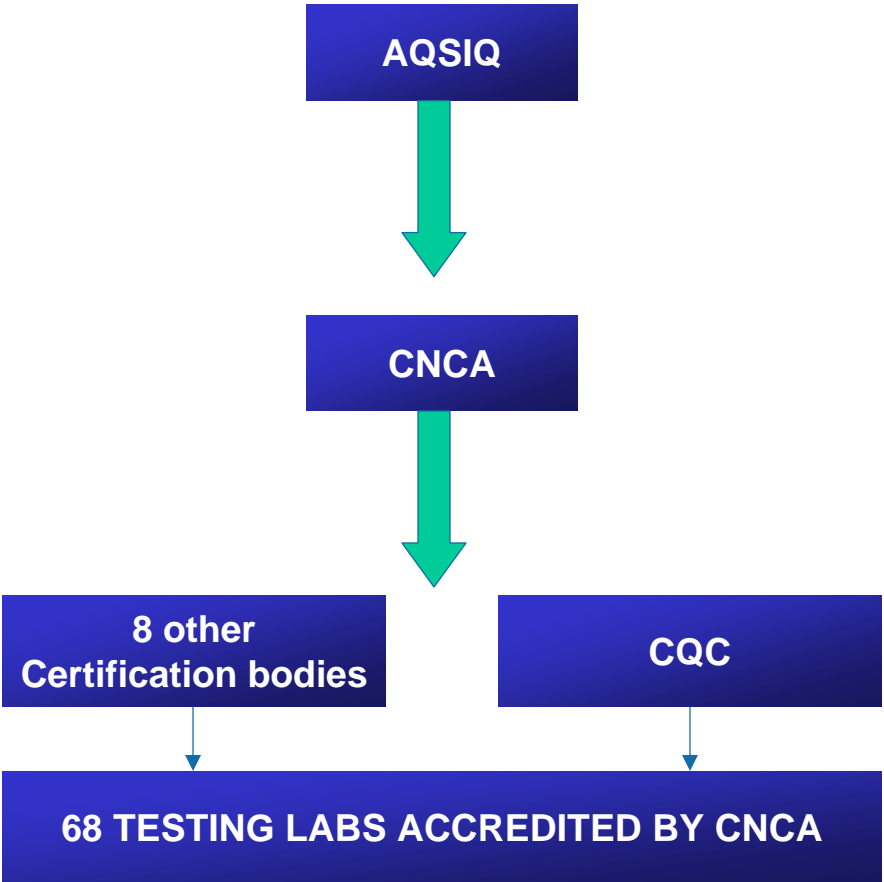


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The Organization Structure

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

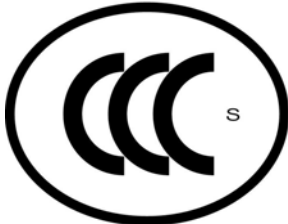
CNCA Certification and Accreditation Administration of the PRC
Government agency / Administration and coordination of activities / Certification / Accreditation / Certification and Testing Market Supervision

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

LABS Conduct testing.

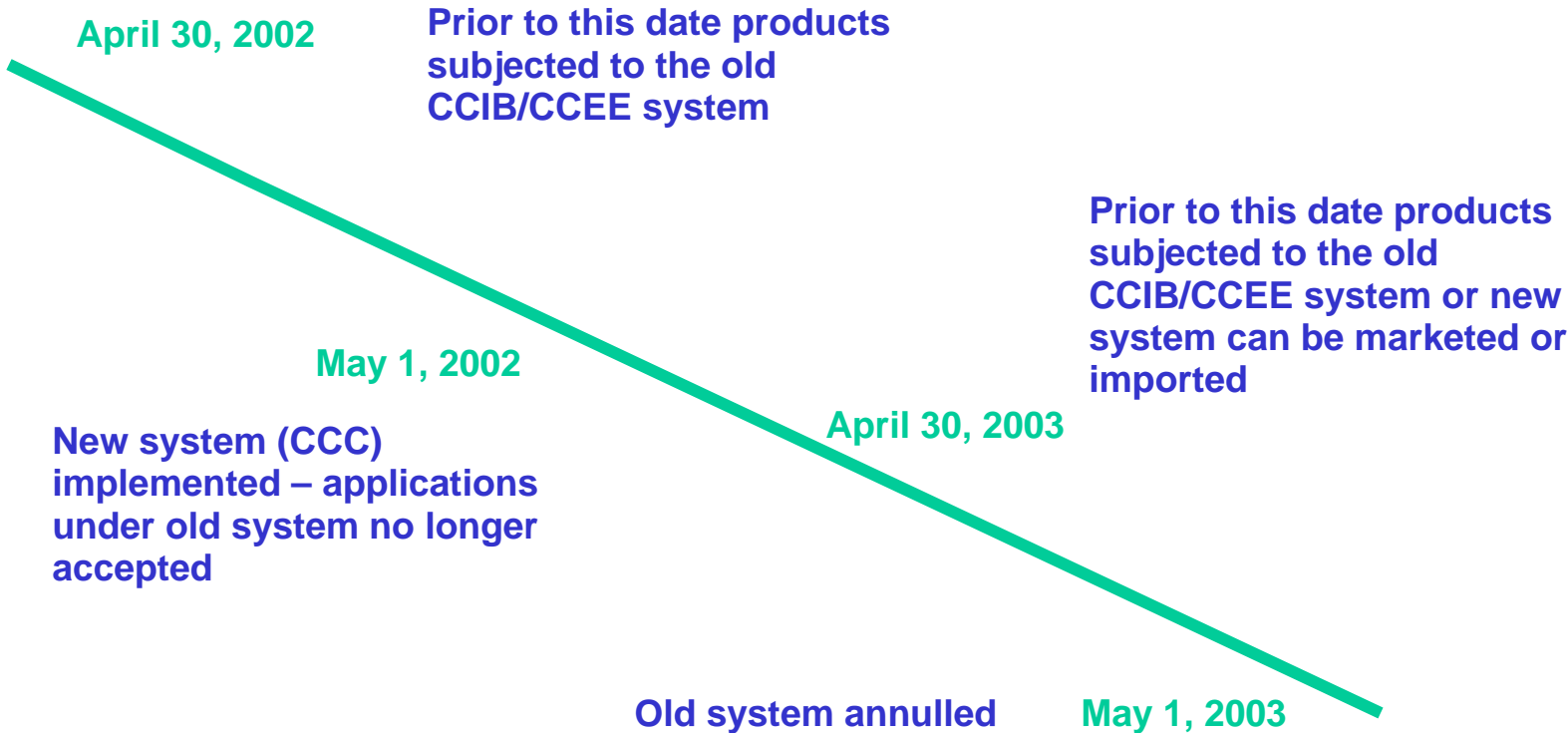


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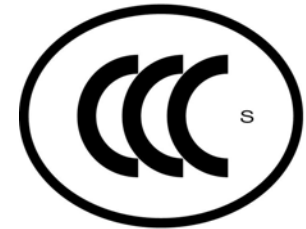
CCC Adoption Timeline



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



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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) Electric tools
- 5) Welding machines
- 6) Household and similar electrical appliances
- 7) Audio and video apparatus
- 8) Information technology equipment (IT)
- 9) Lighting apparatus
- 11) Telecommunication terminal equipment



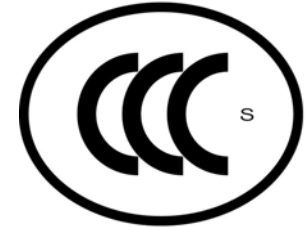


Compulsory Scope Summary (See handout for complete “First Catalogue of Products Subject to Compulsory certification”)

- 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



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HS Codes – CNCA Announcement No. 60

- 1) Verify your product is on the list – see handout
- 2) Confirm

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
- 4) Not all standards harmonized



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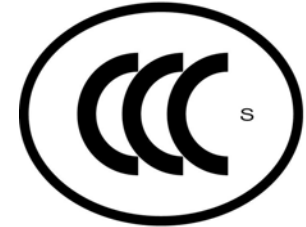
Appendix A Chinese standards v.s. IEC standards (item 3) e.g. Low-voltage Electrical Apparatus (to be continued)

Categories	Chinese Standards	IEC Standards	Note
Installation protective equipment (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



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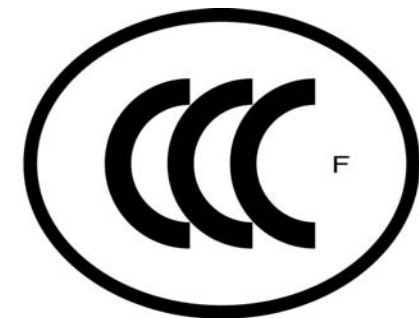
The CCC Markings (cont)

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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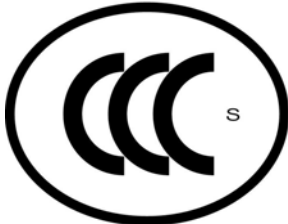


CCC Steps

- Determine if your product requires CCC
- Obtain the regulations – Verify compliance
- Start approval process
 - Application
 - Type testing
 - Factory Inspection
 - Label Approval
- Follow-up inspection



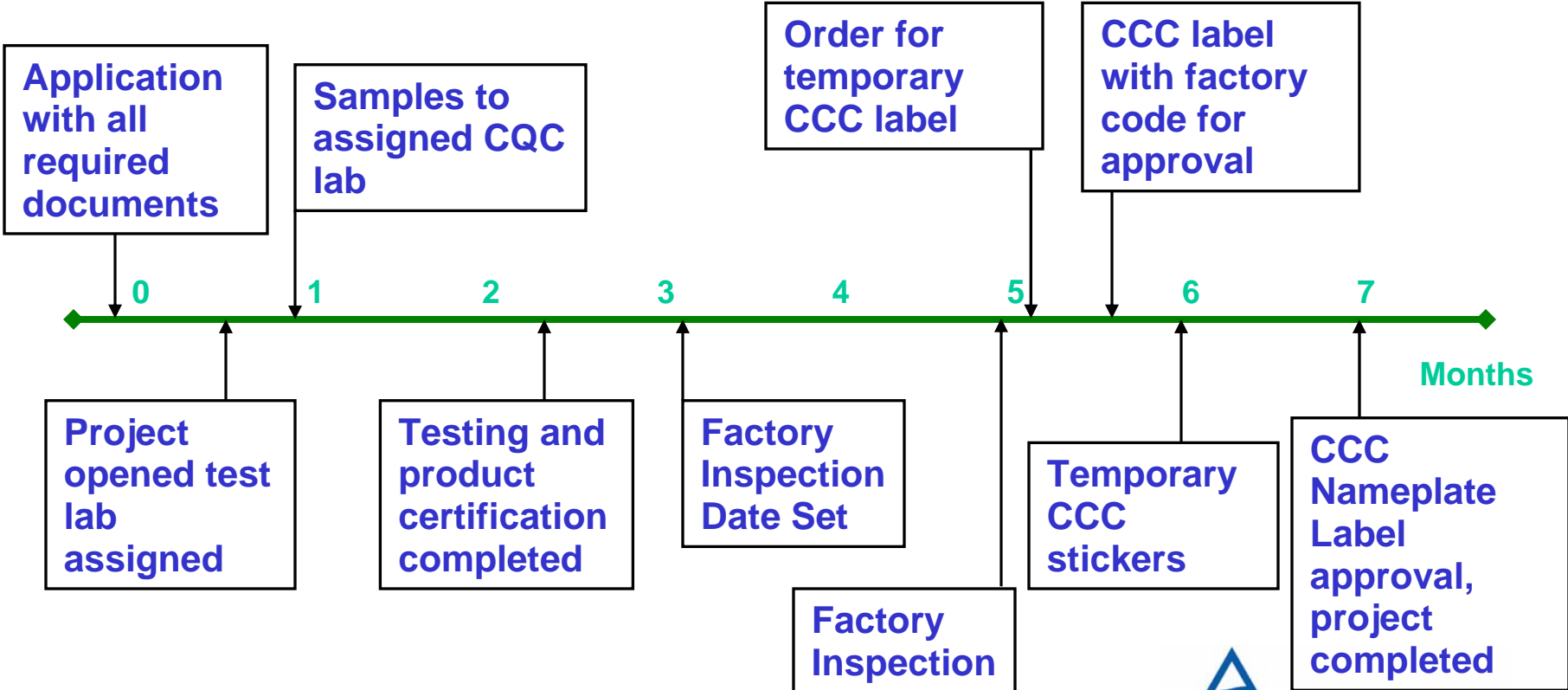
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CCC Certification Timeline Example

Submit to China



Receive from China

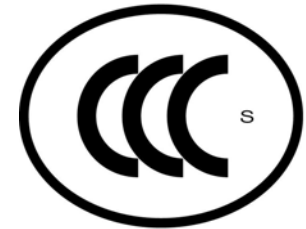


Notes to example

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



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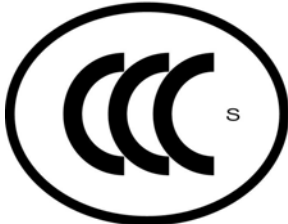
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Typical CCC Service

- ❑ 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

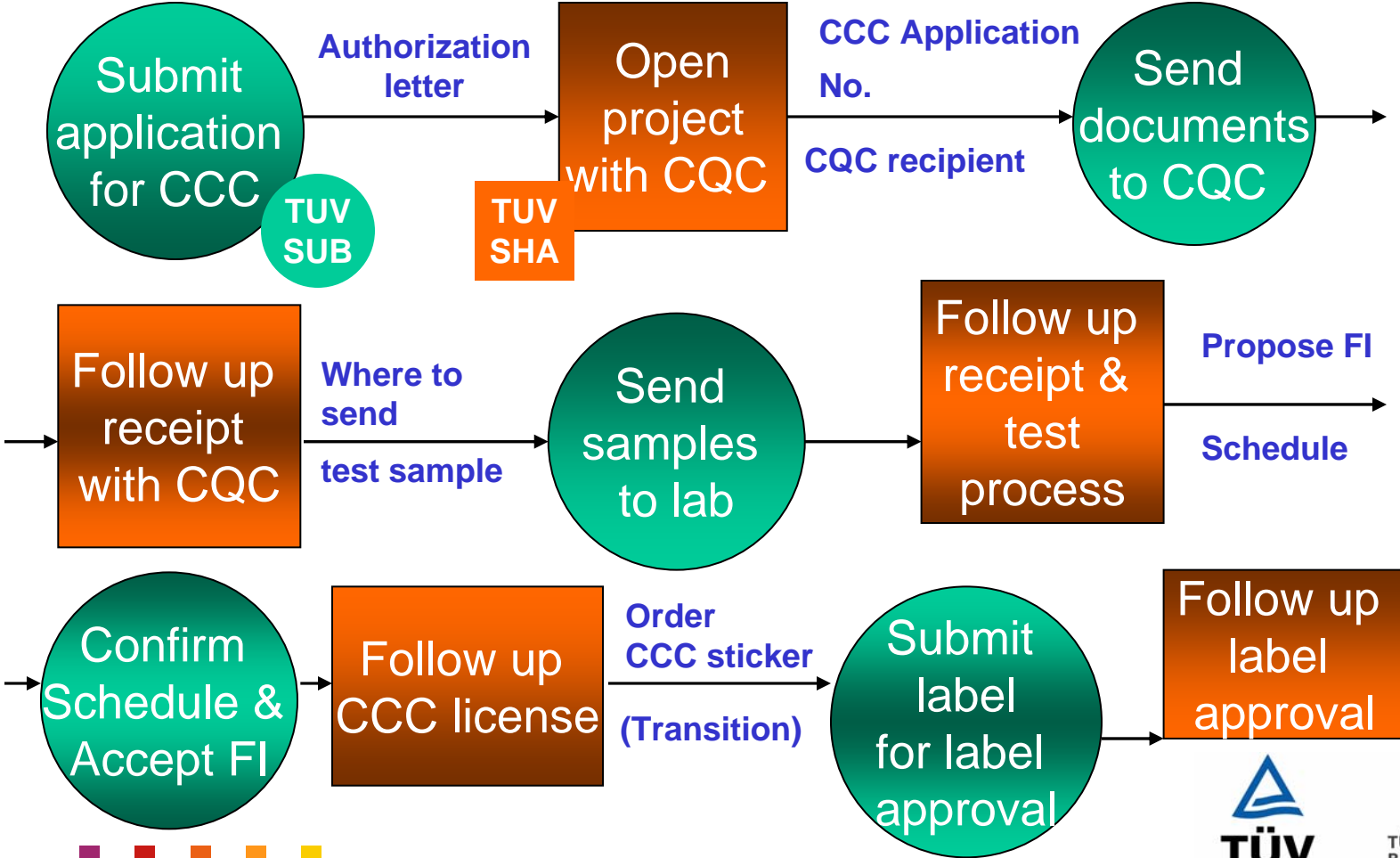


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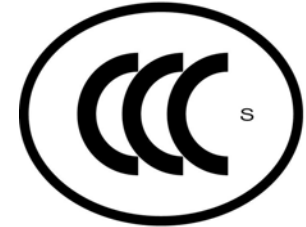


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General Procedure (example categories 6 and 7)



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Samples Required (example categories 6 and 7)

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

Typical Costs (example categories 6 and 7)

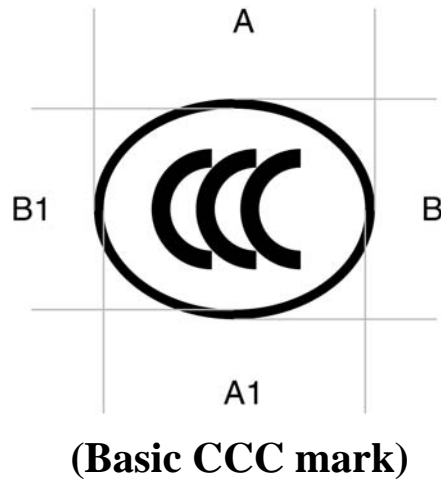
- | | | |
|--------------------------|-----------------------------|--------------|
| <input type="checkbox"/> | CCC Testing and Evaluation | \$3000-10000 |
| <input type="checkbox"/> | Factory Inspection (FI) | \$2000-5000 |
| <input type="checkbox"/> | Travel Expenses for FI | As occurred |
| <input type="checkbox"/> | Yearly fees per certificate | 400 RMB |
| <input type="checkbox"/> | Nameplate approval per cert | 1000 RMB |
| <input type="checkbox"/> | Third Party Agency Fees | 30-80% |



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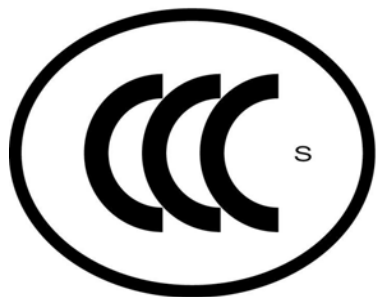


CCC Mark on the product



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)



(CCC mark for safety)



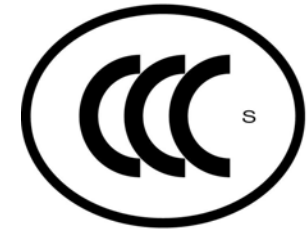
Applying for nameplate approval, Submit to CNCA 10 samples of nameplate with required CCC mark and CCC license No (factory code) under the mark



Documentation Required (example categories 6 and 7)

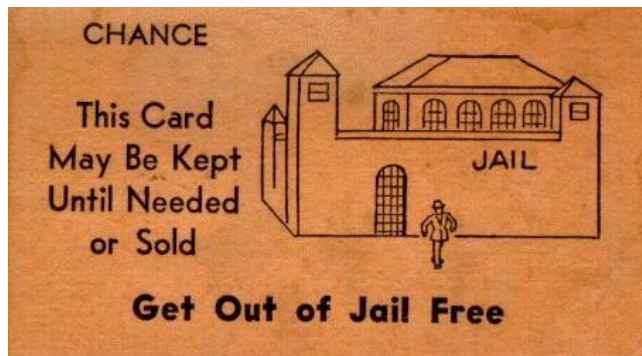
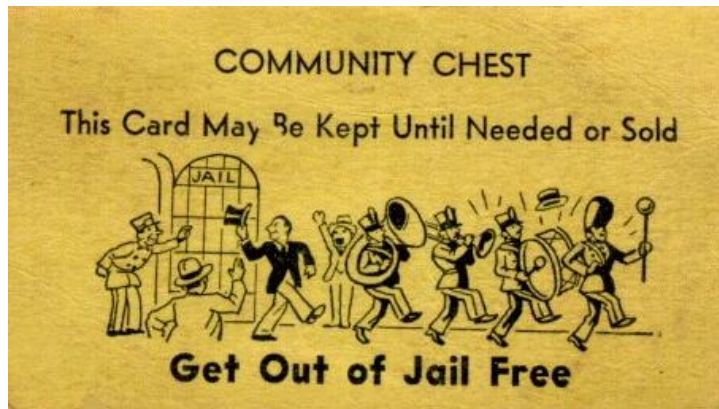
- Authorization letter/ Application letter.
- Where available - CB test report which addresses applicable Chinese National Deviations (rated voltage 220V ± 10%).
- Declaration of conformity complying to relevant GB Standards.
- Critical component lists related to safety and EMC
- Description of the difference 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





International Approvals – China Compulsory Certification (CCC)

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





International Approvals – China Compulsory Certification (CCC)

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**



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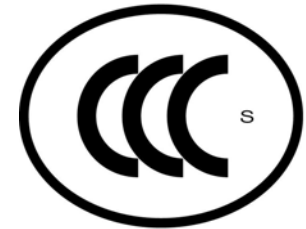


Official websites

- ❑ <http://www.aqsiq.gov.cn>
- ❑ <http://www.cnca.gov.cn>
- ❑ <http://www.cqc.com.cn>



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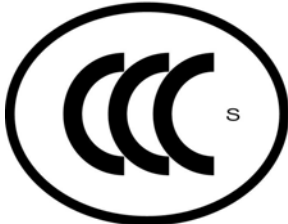
International Approvals – China Compulsory Certification (CCC)

Beyond CCC

- ❑ **NAL – Network Access Licenses – Approval for telecommunications equipment**
 - ❑ Effective since Jan 1, 1999
 - ❑ NAL focuses on all TE with purpose of connecting to telecom network
 - ❑ Certificate valid for three years
- ❑ **SRRC – State Radio Regulatory Commission - Approval for RTE equipment**
 - ❑ Effective Jan 1, 1996
 - ❑ Focus on professional and small power radio equipment
- ❑ **SDA**
 - ❑ Focus on Medical Equipment approval



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International Approvals – China Compulsory Certification (CCC)

NAL (Network Access License) Approval for telecommunications equipment

ORGANISATIONAL LEVEL

MII

TAB

HA

Lab

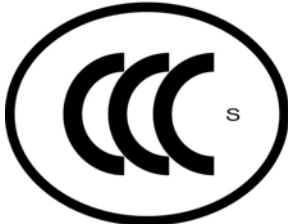
FUNCTION

- MII** **Ministry of Information Industry** is the highest authority for telecommunication policies and regulations in China.
- TAB** **Telecommunications Administration Bureau** is responsible for testing and approval of telecom equipment (TE).
- HA** **Handling Authority** is authorised by TAB to handle application and act as interface to the testing laboratories.
- Labs** Conduct testing.

- ▶ The NAL scheme has become effective on January 1st. 1999
- ▶ The NAL focuses on all TE with the purpose to access the public or private telecom network



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International Approvals – China Compulsory Certification (CCC)
RTE Type Approval (SRRC Approval)

ORGANISATIONAL
LEVEL

MII

SRRC Office

Lab

FUNCTION

MII **Ministry of Information Industry** is the highest authority for telecommunication policies and regulations in China.

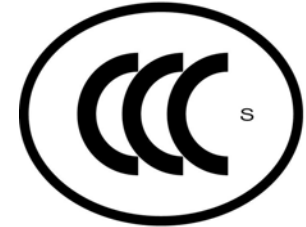
SRRC **State Radio Regulatory Commission** is responsible for the allocation and administration of radio frequencies aiming the optimal utilization of frequency resources.

Labs Conduct testing.

The SRRC approval scheme has become effective since January 1st. 1996.



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Help by the US Government

- In the U.S. - U.S. Department of Commerce
 - China Desk – Timothy_wineland@ita.doc.gov 202-482-5316
 - www.export.gov/china
 - Trade Information Center
 - Trade Compliance Center
 - Local Export Assistance Centers
- In China
 - Commercial Service offices in Beijing, Shanghai, Guangzhou, Chengdu, Shenyang, and Hong Kong
 - Can answer your questions
 - In-depth business services at low cost: research, market analysis, meetings with PRC government and partners
 - Help you find Chinese partners, distributors, sales reps, etc



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Contact us for your International Approvals Questions

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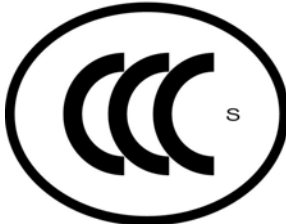
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Questions

Thank you





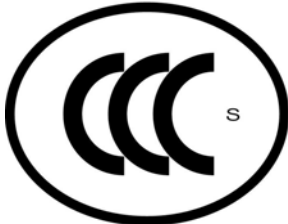
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Appendix A Chinese standards v.s. IEC standards (item 1)
e.g. Electrical wires and cables

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



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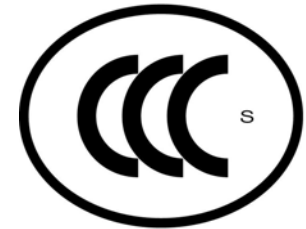


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Appendix A Chinese standards v.s. IEC standards (item 2) e.g. Switches for circuits installation protective and connection devices

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





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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



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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



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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
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	IEC60439-1:1992	idt
	GB7251.2-1997	IEC60439-2:1987	idt
	GB7251.3-1997	IEC60439-3:1990	idt
	GB7251.4-1998	IEC60439-4:1995	idt
	GB7251.5-1998	IEC60439-5:1996	idt
Installation protective equipment (Residual current operated circuit-breakers without over-current protection for household and similar use)	GB16916.1-1997	IEC1008-1:1990	idt
	GB16916.21-1997	IEC1008-2-1:1990	idt
	GB16916.22-1997	IEC1008-2-2:1990	idt



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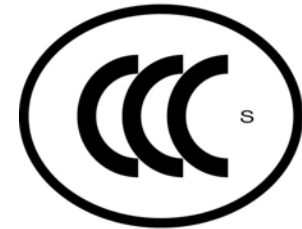
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Appendix A Chinese standards v.s. IEC standards (item 3) e.g. Low-voltage Electrical Apparatus (to be continued)

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	IEC60269-1	ref
	GB13539.2-1992	IEC60269-2	ref
	GB13539.3-1999	IEC60269-3	ref
	GB13539.4-1992	IEC60269-4	ref
	GB13539.5-1999	IEC60269-5	ref



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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



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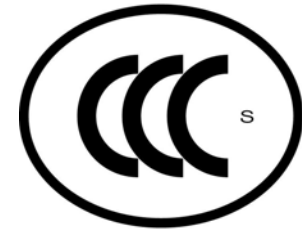
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Appendix A Chinese standards v.s. IEC standards (item 5) e.g. Electric tools (to be continued)

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



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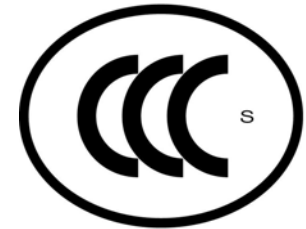
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Appendix A Chinese standards v.s. IEC standards (item 5) e.g. Electric tools (to be continued)

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



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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



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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



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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



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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



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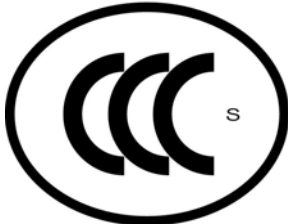
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Appendix A Chinese standards v.s. IEC standards (item 7) e.g. Household and similar electrical appliances (to be continued)

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



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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



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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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