



ExMC/279/DV
August 2005

**INTERNATIONAL ELECTROTECHNICAL COMMISSION SCHEME
FOR CERTIFICATION TO STANDARDS RELATING TO EQUIPMENT FOR
USE IN EXPLOSIVE ATMOSPHERES
(IECEx SCHEME)**

Ex Management Committee, ExMC

**TITLE: IECEx Assessment Report for acceptance of China Certification
Centre for Quality Mark (CQM) as an IECEx Certification Body (ExCB)**

INTRODUCTION

**This document contains the IECEx Assessment Report for the acceptance of
China Certification Centre for Quality Mark (CQM)) within the IECEx Scheme.**

**Please consider the assessment report, which is issued for final vote, during the
coming October ExMC Buxton Meeting.**

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IECEx ASSESSMENT REPORT FORM For ExCB (Accepted Certification Body)

Type of Assessment:

Initial Assessment for Candidate ExCB ☒
Surveillance Assessment for existing ExCB ☐

1. OBJECT AND FIELD OF APPLICATION

1.1 *Country:*

People's Republic of China

1.2 *Name of Candidate ExCB*

China Certification Center for Quality Mark (CQM)

1.3 *Members of the Assessment Team*

On Site

Jim Munro, Lead assessor

Heinz Berger, Assessor

Off Site

Michel Brénon, Assessor

1.4 *Place and Date of Assessment*

12th Floor, Bldg. B of Keyuan Plaza,
A-105 Xisanhuan North Road.

Haidian District,

Beijing City,

People's Republic of China

Postal code: 100037

Tel: +86 10 88411888

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E-mail: cqm@cqm.com.cn

1.5 *Assessment References*

Documents:

- i) IECEx 02 Second Edition 2003-06
- ii) IECEx Operational Document OD/003
- iii) IECEx Operational Document OD/009
- iii) ISO/IEC Guide 65 1996
- iv) ExCB application documents



1.6 Scope of Application

Product Category	Standard
General Requirements	IEC 60079-0
Flameproof enclosure "d"	IEC 60079-1
Pressurized apparatus "p"	IEC 60079-2
Powder filling "q"	IEC 60079-5
Oil immersion "o"	IEC 60079-6
Increased safety "e"	IEC 60079-7
Intrinsic safety "i"	IEC 60079-11
Non sparking "n"	IEC 60079-15
Encapsulation "m"	IEC 60079-18
Combustible dust –General Requirements	IEC 61241-0
Combustible dust - Protection by Enclosures "tD"	IEC 61241-1

All gas standards are for Group II only, where relevant.

1.7 Candidate ExCB Persons Interviewed

Name	Position
Zhang Wei	CEO of CQM
Song Yuewei	Quality Manager of CQM
Zhao Zhiwei	Director of Administration
Li Hede	Technical Expert
Plus a number of other staff	

1.8 Legal Entity of the Candidate ExCB

CQM is an independent legal entity registered in China and provides certification service approved by Certification and Accreditation Administration of the People's Republic of China (CNCA). (See Approval Certificate for Certification Body No. CNCA-R-2002-002). The certificate issued by the Beijing Administration for Industry and Commerce, # 1101081088037, renewed on March 10, 2005, was presented during the assessment as well as the CNCA document. It is checked and confirmed every year by the administration.

1.9 Associated Testing Laboratories

CQM has 4 contracted Testing Laboratories for explosion-proof electrical apparatus:

Names of Laboratories	Address
Testing Laboratory for Explosion protected Electrical Products of Nanyang Explosion Protected Electrical Research Institute / China National Quality Supervision and Test Center for Explosion Protected Electrical Products (CQST)	No.20 North Zhongjing Road, Nanyang, Henan, P. R. China, Postcode: 473008



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Shanghai Inspection and Testing Institute of Instrumentation and Automation Systems (SITIIS) / National Supervision and Inspection Center for Explosion Protection and Safety of Instrumentation (NEPSI)	103, Cao Bao Road, Shanghai, 200233, P. R. of China
Testing Laboratory of Explosion-proof Electrical Products of Tianjin Research Institute of Chemical Industry. China's / China Supervision and Test Center of Explosion –proof Quality for Petroleum and Chemical Industry Electrical Products (PCEC)	No. 85 Road 3, Dingzigu Hongqiao District, Tianjin, China
Testing Laboratory for Explosion-proof and Safety Products of Fushun Branch of China Coal Research Institute / China National Quality Supervision & Test Center for Explosion-proof and Safety Products for Coal Mine's (CMExC)	West Section 10, Dandong Road, Wanghua District, Fushun City, Liaoning Province, P.R.China Postcode: 113001

There are formal signed agreements between CQM and the above laboratories covering the scope of testing work that they may do. Each laboratory holds accreditation from the China National Accreditation Board for Testing Laboratories (CNAL) for the scope of work in the agreement, and have applied for acceptance into the IECEx Scheme. The work of these laboratories is supervised by CQM with formal procedures established for their operation. There is a review of all ExTRs carried out prior to issue of a CoC. This is occurring for the national scheme and is in the procedures for the IECEx Scheme. Annually an assessment is done by CQM at each ExTL that includes fully checking 10% of ExTRs issued. There is some sub-contracting done by the ExTLs and subject to their own procedures. CQM provides a co-ordinating role for these procedures in their role as an ExCB.

1.10 Associated Certification Functions

CQM operates the Chinese Ex Certification Scheme. This system is highly harmonized with IECEx procedures, where several IECEx documents (e.g. OD005 (manufacturer assessment) and OD009 (rules of operation) were taken over for the national system.

1.11 National Marks and Certificates

CQM is issuing Ex certificates bearing the CQM Ex Mark which fully are supported by CNCA and will provide full and convenient access to Chinese market



1.12 *Financial Support*

CQM is financially independent.

1.13 *History*

China Certification Center for Quality Mark (Abbr. CQM) is established as a legal entity registered in China and approved by the Administrative Department of National Certification and Accreditation Supervision.

CQM conducts compulsory product certification, product conformity and safety certification, QMS certification, ESM certification, OHSMS certification, HACCP certification and other conformity assessment activities in the field of industry, agriculture, traffic, transportation, commerce, service, IT, etc.

CQM grew out of the China Certification Committee for Quality Mark Certification Center approved by the former China State Bureau of Technical Supervision (CSBTS) in Sept.1991. The secretariat of CQM is affiliated to China Standardization Association (CAS). CQM established working stations in China and conducted the voluntary product certification and the QMS certification.

Since its being accredited in sept.1995, CQM has been setting up affiliated centers to conduct the quality management system certification. In sept.1999, CQM was registered in Beijing Business Administrative Bureau, and began to conduct the product certification, management system certification, certification training, and other conformity assessment activities as well.

In Sept.2001, CQM joined IQNet that was made up of over thirty well-known certification bodies from different countries. The organizations certified by CQM can get the qualification to apply for getting the certificates issued by other IQNet members without repeated audits, which brings convenience for the certified organizations to promote their international trade.

In July 2002, CQM was approved by CNCA and re-registered at first in accordance with the new national administration methods for certification bodies.

In 2002, CQM was approved by CNCA and then assessed by CNAT to get qualification to train the national registered auditor and internal auditor of QMS, EMS and OHSMS.

1.14 *Standards Accepted*

Product Category	Standard
General Requirements	IEC 60079-0
Flameproof enclosure "d"	IEC 60079-1
Pressurized apparatus "p"	IEC 60079-2



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Powder filling “q”	IEC 60079-5
Oil immersion “o”	IEC 60079-6
Increased safety “e”	IEC 60079-7
Intrinsic safety “i”	IEC 60079-11
Non sparking “n”	IEC 60079-15
Encapsulation “m”	IEC 60079-18
Combustible dust –General Requirements	IEC 61241-0
Combustible dust - Protection by Enclosures “tD”	IEC 61241-1

1.15 *National Differences to IEC Standards*

Chinese National Differences to standards listed in Section 1.6 of this report are available in the IECEx Bulletin, 3rd Edition (to be released shortly).

2. ORGANISATION

2.1 *Names, Titles and Experience of the Senior Executives*

Name	Title	Experience
Zhang Wei	CEO CQM	7 years
Chen Quan	PhD, Deputy General Manager	8 years
Song Yuewei	Quality Manager	9 years
Wu Keqiu	Senior Management Advisor	10 years

2.2 *Name, Title and Experience of the Quality Management Representative*

Name	Title	Experience
Song Yuewei	Quality Manager	9 years

2.3 *Name and Title of Nominated Principal Contact*

Name	Title	Comments
Zhang Wei	CEO CQM	7 years

2.4 *Name and Title of Signatories for Certification*

Name	Title	Comments
Zhang Wei	CEO CQM	7 years

2.5 *Other Employees in ExCB activity*

Name	Title	Responsibility
Li Hede	Technical Expert	32 years
Wang Jianhui	Inspector and Auditor	27 years
Sun Ming	Part time Reviewer	20 years
Li Shuanghui	Technical Expert	22 years



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Annex A explains the Overall Organisation Chart of CQM showing the clear separation of IECEx certification activities to other certification activities in CQM (e.g. ISO 9001, ISO 14001). Annex B presents the Organisation Chart of CQM.

2.6 Organisational Structure

CQM is a comprehensive certification body and can provide certification services of Products Conformity Certification, Products Safety Certification, QMS certification (ISO 9001), EMS certification (ISO14001), OHSMS certification and HACCP certification, CCC (China Compulsory Certification) etc.

CQM is a full member of IQNet (International Certification Network) and IFOAM (International Federation of Organic Agriculture Movements), and can subcontract the management system certification business of IQNet members and participate in the cooperative programs within IFOAM.

CQM is headquartered in Beijing, and has set up 23 affiliated audit centers and 3 offices in most provinces, municipalities and some large cities in China. Additionally, CQM has over 110 subcontracted testing laboratories, and 4 subcontracted testing laboratories for explosion-proof electrical apparatus. CQM has set up Administration Department, Quality Management Department, Approval Department, Development Department, Business Department and Training Department in the headquarters; and the affiliated audit center and offices have set up relevant management departments and business departments in accordance with their own needs. The Quality Management Department of the headquarters is responsible for administering the affiliated audit centers and offices, and the other departments in the headquarters are responsible for guiding, coordination, supervision and service.

All activities related to certification for explosion-proof electrical apparatus are only carried out in the Headquarters and the subcontracted Testing Laboratories of explosion-proof electrical apparatus.

2.7 Administration

2.7.1 Administrative Structure

See Annex A and Annex B for the administrative structure.

2.7.2 Terms of Reference of the Governing Board

The governing board consists of 9 members showing a wide range of experience in the industrial and consumer field and other fields relevant to the wide range of certification activities in CQM. All signed a confidentiality agreement. The governing board is usually meeting one time a year.



3. RESOURCES

Located in 12th Floor, Building B of Keyuan Plaza, A-105 Xisanhuan North Road, Haidian District, Beijing 100037, P.R. China, fully owned by CQM (total area 1000m²),

There are 800 full time staff, 75 of them in the headquarters of CQM in Beijing and 1500 full time auditors, 2600 part time auditors and experts more than 100 contracted laboratories accredited by CNAL.

Personnel active in Ex Certification:

Project planner:	6 (5 full time in CQM HQ, 1 part time from NEPSI)
Final Reviewer:	6 (3 Full time in CQM HQ, 3 part time each from CQST, NEPSI, PECE)
QAR Reviewer:	6 (3 full time in CQM HQ, 3 part time each from CQST, NEPSI, PECE)
ExTR Reviewer:	10 (3 full time in CQM HQ, 7 part time: 2 from CQST, 3 from NEPSI, 1 from PCEC and 1 from CMExC)
Experts:	5 (2 full time in CQM HQ, 3 part time each from CQST, NEPSI, PECE)

4. COMMITTEES

In the case of a complaint CQM is in charge to resolve the complaint posted. See Section 11 of this report for the procedures.

5. CERTIFICATION OPERATIONS

5.1 *National Approval/Certification Methods*

CQM is already operating a national certification scheme, involving Ex CQM certificates, within China, together with the 4 ExTLs that are also applying to be accepted into the Scheme. This national scheme makes extensive use of the IECEX Scheme documentation and procedures. The certification process being used under this national scheme was therefore able to be used a very good indicator of how they will work under the IECEX Scheme. The processes being applied under their scheme were of an excellent standard.

5.2 *Certification Policy*

For CQM as a certification body the quality policy and certification policy are the same and is:

- Impartial performance,
- Objective evaluation,
- Scientific management,
- Normative Service.



5.3 **Staff Work Instructions**

There are comprehensive work instructions covering all aspects of the operation of CQM and its relationship with its ExTLs.

5.4 **Application for Certification**

CQM has a standard application form for all applications with provision to nominate what certification is sought. There is comprehensive information for those seeking to make application on the CQM website and they may also seek information from the ExTLs. All applications come through the CQM Central Office in Beijing.

6. **STATISTICS**

Certificates issued during the past 2 years:

Number of certificates *	2004	January –April of 2005
Type of Protection “d”	6 (2552)	15
Type of Protection “p”	(19)	
Type of Protection “q”	(6)	
Type of Protection “o”	-	-
Type of Protection “e”	1 (484)	6
Type of Protection “i”	(1151)	2
Type of Protection “n”	(149)	
Type of Protection “m”	(108)	1
Type of Protection “DIP”	1 (74)	1

*) Number in brackets are the number of Explosion-proof Type Test Certificate in 2004, because the Explosion-proof electrical apparatus in China shall have the Explosion-proof Type Testing Certificate issued by contracted testing laboratories in accordance with Chinese National Standards GB3836.1. As Ex certification develops in stages, we include the information of Type Test Certificates in 2004 here to indicate the practice and growth of Ex certification in China

7. **DOCUMENTATION**

7.1 **Document and Change Control**

There is a Quality Management Department for internal documents and a special person for ExTLs. For the internal operation the documents are in electronic form on Intranet. Hence people inside can only look at but cannot do modifications. These are done only by the person in charge of documentation in the Quality Department. Procedure CQM/CX-16-2004 covers this.



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Externally in relation to the ExTLs there is a procedure CQM/ZY-01-83-2004. This includes responsibility to distribute relevant IECEx documentation and IEC standard information. There is a person responsible for keeping track of documentation from the IECEx Scheme and IEC standards. This is covered in CQM/ZY-00-82-2005. They have access to the IEC and IECEx websites to check latest standards and documents. They also use consultants from the China Standardization Committee (which is a Government organisation responsible for standards) to keep track of the latest developments. They state that they provide information about the standards but that the ExTLs should be responsible for purchasing standards.

8. RECORDS

CQM maintains a comprehensive certificate database in order to provide records of certificates issued to the public. The website is www.cqm.com.cn/english.

CQM has a very comprehensive set of records for each project covering all aspects of the tasks, including both the ExTR and QAR processes with all relevant reviews and the certification decision.

9. CONFIDENTIALITY

Quality Manual number CQM/SC-00-2004, Clause 2.7 is dealing with the issue of confidentiality. Form CQM/CX-00-19-2004 is used. Every employee as part of the employment documentation signs a confidentiality agreement.

10. PUBLICATIONS

CQM is maintaining a homepage in the English language. The website is www.cqm.com.cn/english. Printed documentation is available as well.

11. APPEALS

CQM has a documented procedure for appeal "Procedure for Deal with Appeals, Complains and Disputes" (CQM/CX-12-2004). Besides, it is subject to Clause 10.5 of IECEx 02 for appeals in IECEx Scheme.

12. NATIONAL ACCREDITATION

CQM holds accreditation by the China National Accreditation Board for Certifiers (CNAB) for CNAB-AC21-ISO/IEC Guide 65 (Product Certification). The certificate was issued on March 9th, 2004 under Registration number CNAB002-P and is valid until March 8th, 2008. The last surveillance visit was performed from March 14 -16, 2005. The certificate was presented during the assessment. All the standards applied for in Clause 1.6 of this report are



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listed in the scope of standards belonging to the certificate. See Annexes C and D.

CQM also holds accreditation by the China National Accreditation Board for Certifiers (CNAB) for CNAB-AC11-ISO/IEC Guide 62 (Quality Management Systems). The certificate was issued on January 5th, 1996 with revision in January 5th, 2004 under number CNAB002-Q and is valid until January 4th, 2008 (See Annex E). The last surveillance visit was performed from October 18 - 20, 2004. The certificate was presented during the assessment.

13. RECOGNITION AND AGREEMENTS

CQM is a member of IQNET dealing with management systems.

14. QUALITY MANUAL

CQM has a comprehensive Quality Manual. The number of the document is CQM/SC-00-2004. The latest version was issued on March 1st, 2005. The manual covers all activities of CQM

15. INTERNAL AUDIT AND PERIODIC REVIEW

The Quality Manual, Clause 2.4 deals with internal audits and management review. CQM head office organizes internal audits and management review on annual basis and covers the CQM headquarters and all branches involving 15 auditors on full time basis. Two forms, CQM/CX-00-20-2004 "Procedure for internal audit and management review" and CQM/CX-00-21-2004 "Procedure control of nonconformities and corrective and preventive actions" are available. A special internal audit (June 1 – 3, 2005) and a management review have been carried out on June 20, 2005, in order to cover IECEx operation.

The 2005 overall management review will take place after the finalization of the internal audits from July 25 – 27, 2005, involving all branch directors (26) and covers all activities of CQM.

16. COMPLAINTS

This is covered in Chapter 11 of the Quality Manual for the complaints mechanism.

17. WITHDRAWAL AND CANCELLATION OF CERTIFICATES

Chapter 4.2 of the Quality manual deals with this issue. Document CQM/CX-00-09-2004 "Procedure for granting, maintaining, extension, reducing, suspension, renewing, cancellation and withdrawal certification" shall be used in this process.



18. SPECIAL FACTS TO BE NOTED

CQM is in charge to carefully manage the scope issue with the laboratories, following the acceptance of CQM and the laboratories under contract.

China is in the process of improving the situation concerning liability coverage. Presently the possibilities are very limited due to the Chinese law. However, the insurance market in China may be opened soon for foreign insurance companies and law will be adapted. In this situation CQM has an insurance contract from PICC Property and Casualty Company Limited under number PZBH200411010804000001. CQM will seek improved coverage as soon as the law situation in China allows.

CQM will accept ExTRs and QARs from other bodies in the Scheme. They have stated that there exists no national difference in QARs between the CQM National Scheme and IECEx Scheme. They also have provision in their procedures to accept tests in ExTRs to the Chinese national differences. In such situations CQM will arrange for testing laboratories to verify these tests, including test facilities and methods. If acceptable, CQM will recognize the results of the tests.

19. COMMENTS

There were a few findings from the assessment that required attention, regarding IEC and ISO standards used on CQM and the ExTLs, and the role of CQM Branches. These were subsequently resolved. The IECEx Scheme Secretariat, together with other supporting information from the assessment, holds full details.

20. RECOMMENDATION

Based on the initial assessment performed during 14 to 15 July 2005 CQM is recommended for acceptance into the IECEx scheme as a Certifying Body (ExCB) according to the scope of the standards listed in this document.

LIST OF ANNEXES

- Annex A: Overall organisation of CQM activities
- Annex B: Organisation Chart of CQM
- Annex C: Accreditation Certificate ISO/IEC Guide 65
- Annex D: Scope of Standards to ISO/IEC Guide 65
- Annex E: Accreditation Certificate ISO/IEC Guide 62

Jim Munro
Lead Assessor
Assessor

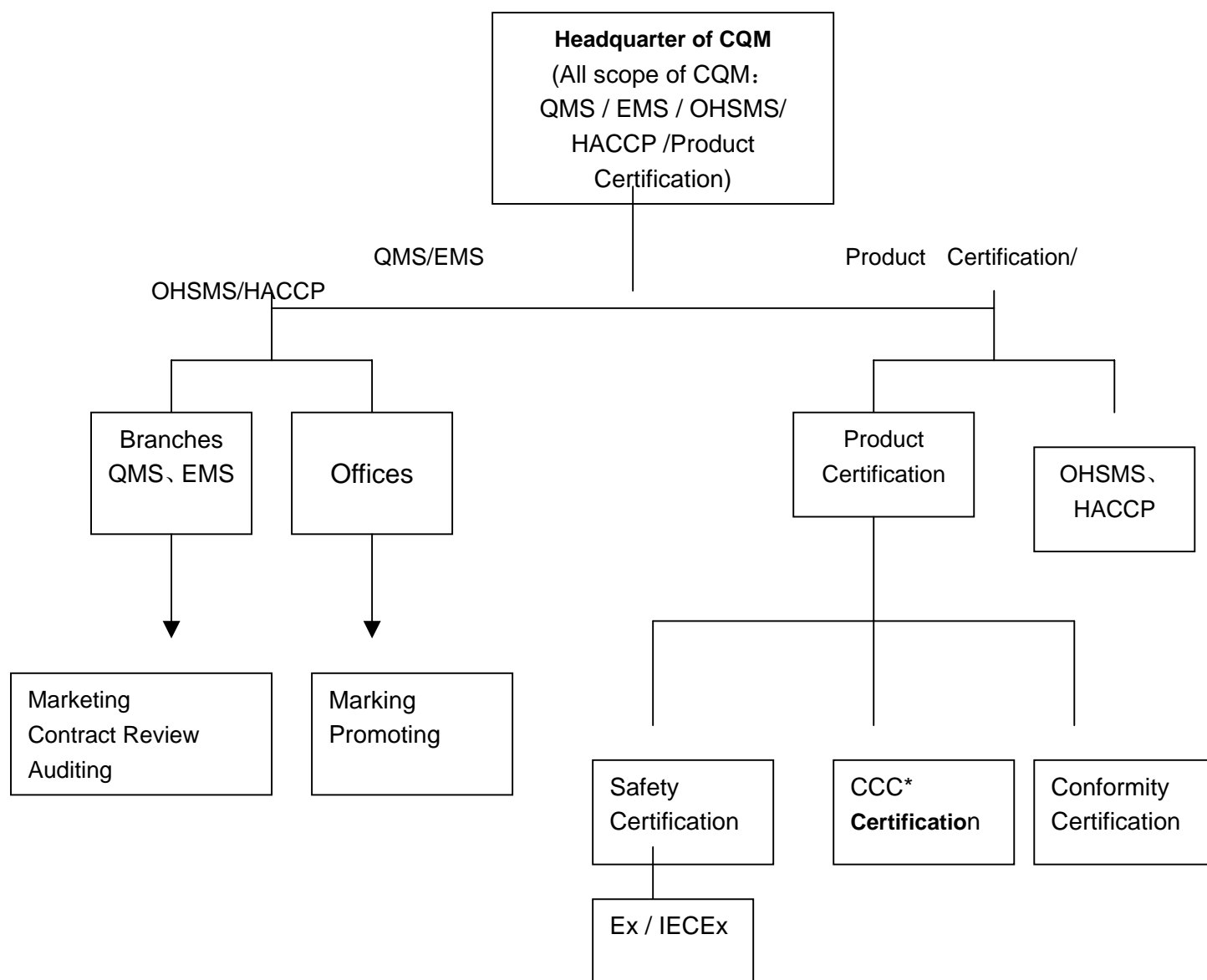
Heinz Berger
Assessor

Michel Brénon

30 August 2005

Annex A

Certification Activities Chart of CQM

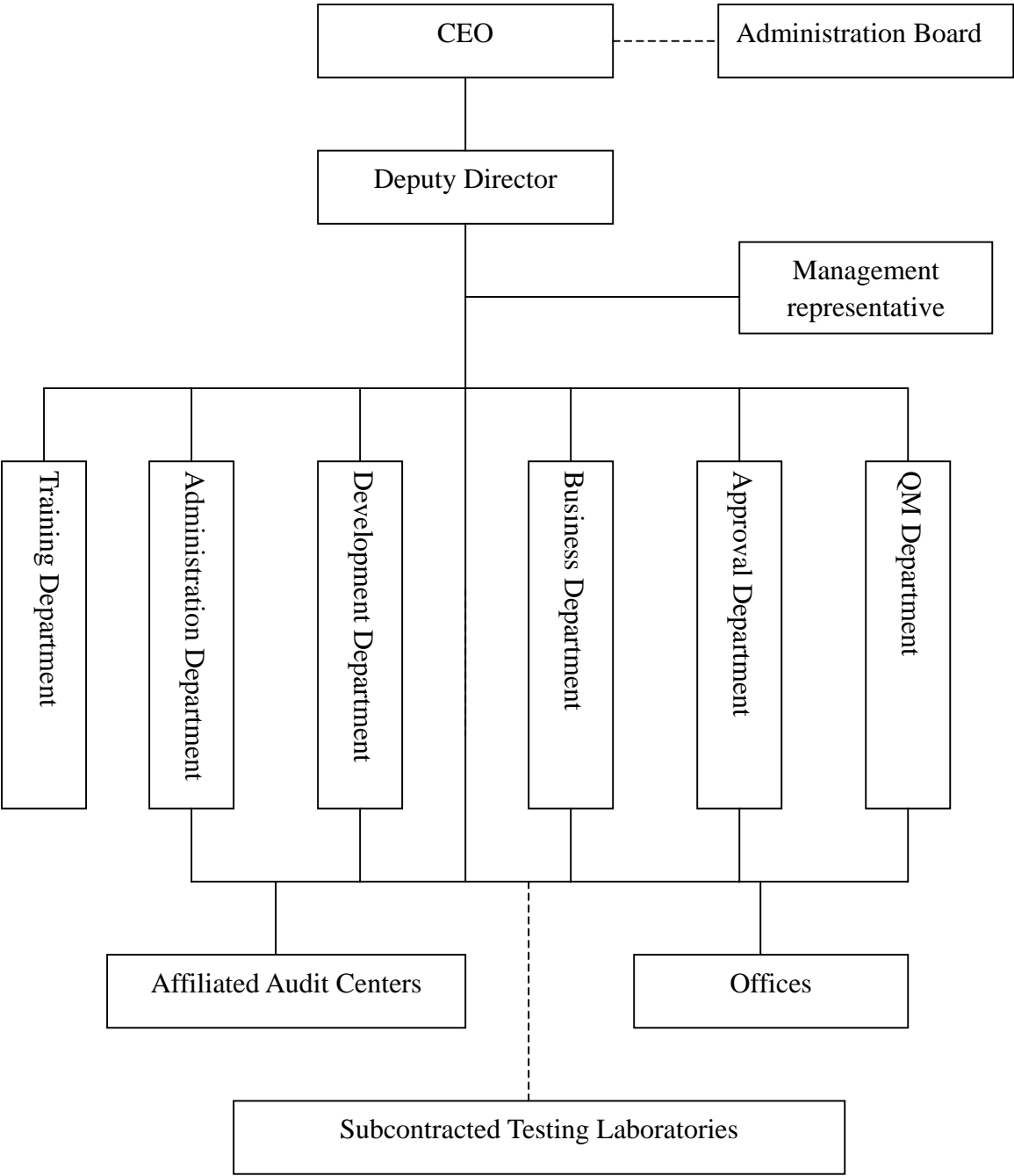


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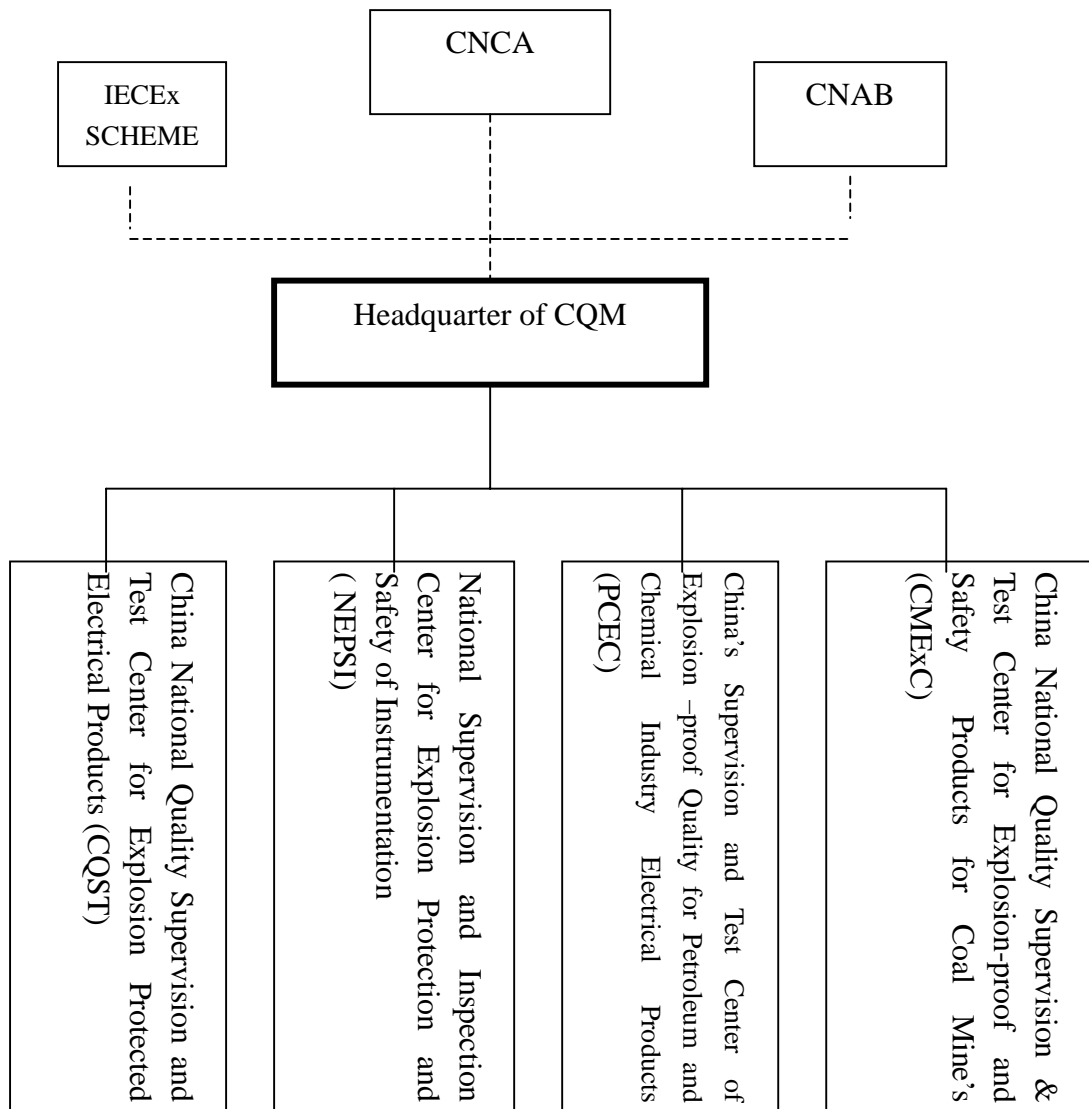
1. CCC: China Compulsory Certification
2. Decisions on all certification are taken place in Headquarter of CQM the Headquarter of CQM issues ALL CoC.

Annex B

CQM Organizational Chart



Operation system structure of Ex-products certification







APPENDIX TO CERTIFICATE OF ACCREDITATION

ACCREDITED SCOPES

Registration No.: CNAB002-P

Name: China Certification Center For Quality Mark

Address: The 12th Floor, Building B of Keyuan Plaza, No.A-105 Xisanhuan North Road, Haidian District, Beijing, 100037

Type of Certification: Certification of Product

The accredited scope and related standards(norms):

No.	Accredited Items	Standards or Specifications	Certification model
93.	Sodium Selenite Feed Grade	HG2937-1999 Sodium Selenite Feed Grade	Type testing +Initial inspection of the factory +Follow-up inspection
94.	Calcium Hydrogen Phosphate Feed Grade	HG2636-2000 Calcium Hydrogen Phosphate Feed Grade	As above
95.	electrical motor (axis high 160mm and smaller)	GB3836.1-2000 (eqv IEC 60079-0:1998) Electrical apparatus for explosive gas atmospheres—Part1:General requirements GB3836.2-2000(eqv IEC 60079-1:1991) Electrical apparatus for explosive gas atmospheres—Part2: Flameproof enclosure "d" GB3836.3-2000(eqv IEC 60079-7:1990) Electrical apparatus for explosive gas atmospheres—Part3: Increased safety"e" GB3836.4-2000(eqv IEC60079-11:1999) Electrical apparatus for explosive gas atmospheres—Part4:Intrinsic safety "I" GB3836.5-2004(参照 IEC60079-2:2001) Electrical apparatus for explosive atmospheres—Pressurized electrical apparatus "p" GB3836.8-2003(MOD IEC60079-15:2001) Electrical apparatus for explosive atmospheres—Part 8: Type of protection "n" GB3836.9-1990(参照 IEC60079-18) Electrical apparatus for explosive atmospheres—Encapsulated electrical apparatus "m" GB12476.1-2000(IDT IEC12476-1-1:1999) Electrical apparatus for use in the presence of combustible dust—Part 1-1: Electrical apparatus protected by enclosures and surface temperature limitation —Specification for apparatus	As above
96.	electrical motor (axis high 180mm~315mm)	GB3836.1-2000 (eqv IEC 60079-0:1998) Electrical apparatus for explosive gas atmospheres—Part1:General requirements GB3836.2-2000(eqv IEC 60079-1:1991) Electrical apparatus for explosive gas atmospheres—Part2: Flameproof enclosure "d" GB3836.3-2000(eqv IEC 60079-7:1990) Electrical apparatus for explosive gas atmospheres—Part3: Increased safety"e" GB3836.4-2000(eqv IEC60079-11:1999) Electrical apparatus for explosive gas atmospheres—Part4:Intrinsic safety "I" GB3836.5-2004(参照 IEC60079-2:2001) Electrical apparatus for explosive atmospheres—Pressurized electrical apparatus "p" GB3836.8-2003(MOD IEC60079-15:2001) Electrical apparatus for explosive atmospheres—Part 8: Type of protection "n"	As above

* * * * *

Secretary-general of CNAB



APPENDIX TO CERTIFICATE OF ACCREDITATION

ACCREDITED SCOPES

Registration No.: CNAB002-P

Name: China Certification Center For Quality Mark

Address: The 12th Floor, Building B of Keyuan Plaza, No.A-105 Xisanhuan North Road, Haidian District, Beijing, 100037

Type of Certification: Certification of Product

The accredited scope and related standards(norms):

No.	Accredited Items	Standards or Specifications	Certification model	
	electrical motor (axis high 180mm~315mm)	GB3836.9-1990(参 照 IEC60079-18) GB12476.1-2000(IDT IEC12476-1-1:1999)	Electrical apparatus for explosive atmospheres— Encapsulated electrical apparatus “m” Electrical apparatus for use in the presence of combustible dust—Part 1-1: Electrical apparatus protected by enclosures and surface temperature limitation —Specification for apparatus Type testing +Initial inspection of the factory +Follow-up inspection	
97.	electrical motor (axis high 355mm~500mm)	GB3836.1-2000 (eqv IEC 60079-0:1998) GB3836.2-2000(eqv IEC 60079-1:1991) GB3836.3-2000(eqv IEC 60079-7:1990) GB3836.4-2000(eqv IEC60079-11:1999) GB3836.5-2004(参 照 IEC60079-2:2001) GB3836.8-2003(MOD IEC60079-15:2001) GB3836.9-1990(参 照 IEC60079-18) GB12476.1-2000(IDT IEC12476-1-1:1999)	Electrical apparatus for explosive gas atmospheres—Part1:General requirements Electrical apparatus for explosive gas atmospheres—Part2: Flameproof enclosure “d” Electrical apparatus for explosive gas atmospheres—Part3: Increased safety“e” Electrical apparatus for explosive gas atmospheres—Part4:Intrinsic safety “I” Electrical apparatus for explosive atmospheres— Pressurized electrical apparatus “p” Electrical apparatus for explosive atmospheres— Part 8: Type of protection “n” Electrical apparatus for explosive atmospheres— Encapsulated electrical apparatus “m” Electrical apparatus for use in the presence of combustible dust—Part 1-1. Electrical apparatus protected by enclosures and surface temperature limitation —Specification for apparatus	As above
98.	electrical motor (axis high 560mm and above)	GB3836.1-2000 (eqv IEC 60079-0:1998) GB3836.2-2000(eqv IEC 60079-1:1991) GB3836.3-2000(eqv IEC 60079-7:1990) GB3836.4-2000(eqv IEC60079-11:1999) GB3836.5-2004(参 照 IEC60079-2:2001)	Electrical apparatus for explosive gas atmospheres—Part1:General requirements Electrical apparatus for explosive gas atmospheres—Part2: Flameproof enclosure “d” Electrical apparatus for explosive gas atmospheres—Part3: Increased safety“e” Electrical apparatus for explosive gas atmospheres—Part4:Intrinsic safety “I” Electrical apparatus for explosive atmospheres— Pressurized electrical apparatus “p”	As above

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Secretary-general of CNAB



APPENDIX TO CERTIFICATE OF ACCREDITATION

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Type of Certification: Certification of Product

The accredited scope and related standards(norms):

No.	Accredited Items	Standards or Specifications	Certification model		
	electrical motor (axis high 560mm and above)	GB3836.8-2003(MOD IEC60079-15:2001) GB3836.9-1990(参照 IEC60079-18) GB12476.1-2000(IDT IEC12476-1-1:1999)	Electrical apparatus for explosive atmospheres—Part 8: Type of protection “n” Electrical apparatus for explosive atmospheres—Encapsulated electrical apparatus “m” Electrical apparatus for use in the presence of combustible dust—Part 1-1: Electrical apparatus protected by enclosures and surface temperature limitation —Specification for apparatus	Type testing +Initial inspection of the factory +Follow-up inspection	
99.	Explosion ventilator	-proof	GB3836.1-2000 (eqv IEC 60079-0:1998) GB3836.2-2000(eqv IEC 60079-1:1991) GB3836.3-2000(eqv IEC 60079-7:1990) GB3836.4-2000(eqv IEC60079-11:1999) GB3836.5-2004(参照 IEC60079-2:2001) GB3836.8-2003(MOD IEC60079-15:2001) GB3836.9-1990(参照 IEC60079-18) GB12476.1-2000(IDT IEC12476-1-1:1999)	Electrical apparatus for explosive gas atmospheres—Part1:General requirements Electrical apparatus for explosive gas atmospheres—Part2: Flameproof enclosure “d” Electrical apparatus for explosive gas atmospheres—Part3: Increased safety“e” Electrical apparatus for explosive gas atmospheres—Part4:Intrinsic safety “I” Electrical apparatus for explosive atmospheres—Pressurized electrical apparatus “p” Electrical apparatus for explosive atmospheres—Part 8: Type of protection “n” Electrical apparatus for explosive atmospheres—Encapsulated electrical apparatus “m” Electrical apparatus for use in the presence of combustible dust—Part 1-1: Electrical apparatus protected by enclosures and surface temperature limitation —Specification for apparatus	As above
100.	Explosion-proof electrical fans		GB3836.1-2000 (eqv IEC 60079-0:1998) GB3836.2-2000(eqv IEC 60079-1:1991) GB3836.3-2000(eqv IEC 60079-7:1990) GB3836.4-2000(eqv IEC60079-11:1999)	Electrical apparatus for explosive gas atmospheres—Part1:General requirements Electrical apparatus for explosive gas atmospheres—Part2: Flameproof enclosure “d” Electrical apparatus for explosive gas atmospheres—Part3: Increased safety“e” Electrical apparatus for explosive gas atmospheres—Part4:Intrinsic safety “I”	As above

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APPENDIX TO CERTIFICATE OF ACCREDITATION

ACCREDITED SCOPES

Registration No.: CNAB002-P

Name: China Certification Center For Quality Mark

Address: The 12th Floor, Building B of Keyuan Plaza, No.A-105 Xisanhuan North Road, Haidian District, Beijing, 100037

Type of Certification: Certification of Product

The accredited scope and related standards(norms):

No.	Accredited Items	Standards or Specifications	Certification model	
	Explosion-proof electrical fans	GB3836.5-2004(参 照 IEC60079-2:2001) GB3836.8-2003(MOD IEC60079-15:2001) GB3836.9-1990(参 照 IEC60079-18) GB12476.1-2000(IDT IEC12476-1-1:1999)	Electrical apparatus for explosive atmospheres— Pressurized electrical apparatus “p” Electrical apparatus for explosive atmospheres— Part 8: Type of protection “n” Electrical apparatus for explosive atmospheres— Encapsulated electrical apparatus “m” Electrical apparatus for use in the presence of combustible dust—Part 1-1: Electrical apparatus protected by enclosures and surface temperature limitation —Specification for apparatus	Type testing +Initial inspection of the factory +Follow-up inspection
101.	explosion-proof pump (inclusive immersible pump)	GB3836.1-2000 (eqv IEC 60079-0:1998) GB3836.2-2000(eqv IEC 60079-1:1991) GB3836.3-2000(eqv IEC 60079-7:1990) GB3836.4-2000(eqv IEC60079-11:1999) GB3836.5-2004(参 照 IEC60079-2:2001) GB3836.8-2003(MOD IEC60079-15:2001) GB3836.9-1990(参 照 IEC60079-18) GB12476.1-2000(IDT IEC12476-1-1:1999)	Electrical apparatus for explosive gas atmospheres—Part1:General requirements Electrical apparatus for explosive gas atmospheres—Part2: Flameproof enclosure “d” Electrical apparatus for explosive gas atmospheres—Part3: Increased safety“e” Electrical apparatus for explosive gas atmospheres—Part4:Intrinsic safety “I” Electrical apparatus for explosive atmospheres— Pressurized electrical apparatus “p” Electrical apparatus for explosive atmospheres— Part 8: Type of protection “n” Electrical apparatus for explosive atmospheres— Encapsulated electrical apparatus “m” Electrical apparatus for use in the presence of combustible dust—Part 1-1: Electrical apparatus protected by enclosures and surface temperature limitation —Specification for apparatus	As above
102.	protective device for explosion-proof motor	GB3836.1-2000 (eqv IEC 60079-0:1998) GB3836.2-2000(eqv IEC 60079-1:1991) GB3836.3-2000(eqv IEC 60079-7:1990)	Electrical apparatus for explosive gas atmospheres—Part1.General requirements Electrical apparatus for explosive gas atmospheres—Part2: Flameproof enclosure “d” Electrical apparatus for explosive gas atmospheres—Part3: Increased safety“e”	As above

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Type of Certification: Certification of Product

The accredited scope and related standards(norms):

No.	Accredited Items	Standards or Specifications	Certification model	
	protective device for explosion-proof motor	GB3836.4-2000(eqv IEC60079-11:1999) GB3836.5-2004(参照 IEC60079-2:2001) GB3836.8-2003(MOD IEC60079-15:2001) GB3836.9-1990(参照 IEC60079-18) GB12476.1-2000(IDT IEC12476-1-1:1999)	Electrical apparatus for explosive gas atmospheres—Part4:Intrinsic safety "I" Electrical apparatus for explosive atmospheres—Pressurized electrical apparatus "p" Electrical apparatus for explosive atmospheres—Part 8: Type of protection "n" Electrical apparatus for explosive atmospheres—Encapsulated electrical apparatus "m" Electrical apparatus for use in the presence of combustible dust—Part 1-1: Electrical apparatus protected by enclosures and surface temperature limitation —Specification for apparatus	Type testing +Initial inspection of the factory +Follow-up inspection
103.	explosion-proof transformer	GB3836.1-2000 (eqv IEC 60079-0:1998) GB3836.2-2000(eqv IEC 60079-1:1991) GB3836.3-2000(eqv IEC 60079-7:1990) GB3836.4-2000(eqv IEC60079-11:1999) GB3836.5-2004(参照 IEC60079-2:2001) GB3836.6-2004(参照 IEC60079-6:1995) GB3836.8-2003(MOD IEC60079-15:2001) GB3836.9-1990(参照 IEC60079-18) GB12476.1-2000(IDT IEC12476-1-1:1999)	Electrical apparatus for explosive gas atmospheres—Part1.General requirements Electrical apparatus for explosive gas atmospheres—Part2: Flameproof enclosure "d" Electrical apparatus for explosive gas atmospheres—Part3: Increased safety "e" Electrical apparatus for explosive gas atmospheres—Part4:Intrinsic safety "I" Electrical apparatus for explosive atmospheres—Pressurized electrical apparatus "p" Electrical apparatus for explosive atmospheres—oil immersed electrical apparatus "o" Electrical apparatus for explosive atmospheres—Part 8: Type of protection "n" Electrical apparatus for explosive atmospheres—Encapsulated electrical apparatus "m" Electrical apparatus for use in the presence of combustible dust—Part 1-1: Electrical apparatus protected by enclosures and surface temperature limitation —Specification for apparatus	As above

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Type of Certification: Certification of Product

The accredited scope and related standards(norms):

No.	Accredited Items	Standards or Specifications	Certification model	
104.	explosion-proof control button	GB3836.1-2000 (eqv IEC 60079-0:1998) GB3836.2-2000(eqv IEC 60079-1:1991) GB3836.3-2000(eqv IEC 60079-7:1990) GB3836.4-2000(eqv IEC 60079-11:1999) GB3836.8-2003(MOD IEC 60079-15:2001) GB3836.9-1990(参照 IEC 60079-18) GB12476.1-2000(IDT IEC 12476-1-1:1999)	Electrical apparatus for explosive gas atmospheres—Part1:General requirements Electrical apparatus for explosive gas atmospheres—Part2: Flameproof enclosure "d" Electrical apparatus for explosive gas atmospheres—Part3: Increased safety "e" Electrical apparatus for explosive gas atmospheres—Part4:Intrinsic safety "I" Electrical apparatus for explosive atmospheres—Part 8: Type of protection "n" Electrical apparatus for explosive atmospheres—Encapsulated electrical apparatus "m" Electrical apparatus for use in the presence of combustible dust—Part 1-1: Electrical apparatus protected by enclosures and surface temperature limitation —Specification for apparatus	Type testing +Initial inspection of the factory +Follow-up inspection
105.	explosion-proof operating post	GB3836.1-2000 (eqv IEC 60079-0:1998) GB3836.2-2000(eqv IEC 60079-1:1991) GB3836.3-2000(eqv IEC 60079-7:1990) GB3836.4-2000(eqv IEC 60079-11:1999) GB3836.5-2004(参照 IEC 60079-2:2001) GB3836.6-2004(参照 IEC 60079-6:1995) GB3836.7-2004(参照 IEC 60079-5:1997) GB3836.8-2003(MOD IEC 60079-15:2001) GB3836.9-1990(参照 IEC 60079-18)	Electrical apparatus for explosive gas atmospheres—Part1:General requirements Electrical apparatus for explosive gas atmospheres—Part2: Flameproof enclosure "d" Electrical apparatus for explosive gas atmospheres—Part3: Increased safety "e" Electrical apparatus for explosive gas atmospheres—Part4:Intrinsic safety "I" Electrical apparatus for explosive atmospheres—Pressurized electrical apparatus "p" Electrical apparatus for explosive atmospheres—oil immersed electrical apparatus "o" Electrical apparatus for explosive atmospheres—Sand filled electrical apparatus "q" Electrical apparatus for explosive atmospheres—Part 8: Type of protection "n" Electrical apparatus for explosive atmospheres—Encapsulated electrical apparatus "m"	As above

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Type of Certification: Certification of Product

The accredited scope and related standards(norms):

No.	Accredited Items	Standards or Specifications	Certification model
	explosion-proof operating post	GB12476.1-2000(IDT IEC12476-1-1:1999)	Electrical apparatus for use in the presence of combustible dust—Part 1-1: Electrical apparatus protected by enclosures and surface temperature limitation —Specification for apparatus
106.	explosion-proof electro-magnetic starter	GB3836.1-2000 (eqv IEC 60079-0:1998) GB3836.2-2000(eqv IEC 60079-1:1991) GB3836.3-2000(eqv IEC 60079-7:1990) GB3836.4-2000(eqv IEC60079-11:1999) GB3836.5-2004(参照 IEC60079-2:2001) GB3836.6-2004(参照 IEC60079-6:1995) GB3836.7-2004(参照 IEC60079-5:1997) GB3836.8-2003(MOD IEC60079-15:2001) GB3836.9-1990(参照 IEC60079-18) GB12476.1-2000(IDT IEC12476-1-1:1999)	Electrical apparatus for explosive gas atmospheres—Part1:General requirements Electrical apparatus for explosive gas atmospheres—Part2: Flameproof enclosure "d" Electrical apparatus for explosive gas atmospheres—Part3: Increased safety "e" Electrical apparatus for explosive gas atmospheres—Part4:Intrinsic safety "I" Electrical apparatus for explosive atmospheres—Pressurized electrical apparatus "p" Electrical apparatus for explosive atmospheres—oil immersed electrical apparatus "o" Electrical apparatus for explosive atmospheres—Sand filled electrical apparatus "q" Electrical apparatus for explosive atmospheres—Part 8: Type of protection "n" Electrical apparatus for explosive atmospheres—Encapsulated electrical apparatus "m" Electrical apparatus for use in the presence of combustible dust—Part 1-1: Electrical apparatus protected by enclosures and surface temperature limitation —Specification for apparatus
			Type testing +Initial inspection of the factory +Follow-up inspection
			As above
107.	explosion-proof switch	GB3836.1-2000 (eqv IEC 60079-0:1998) GB3836.2-2000(eqv IEC 60079-1:1991) GB3836.3-2000(eqv IEC 60079-7:1990) GB3836.4-2000(eqv IEC60079-11:1999)	Electrical apparatus for explosive gas atmospheres—Part1:General requirements Electrical apparatus for explosive gas atmospheres—Part2: Flameproof enclosure "d" Electrical apparatus for explosive gas atmospheres—Part3: Increased safety "e" Electrical apparatus for explosive gas atmospheres—Part4:Intrinsic safety "I"
			As above

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Type of Certification: Certification of Product

The accredited scope and related standards(norms):

No.	Accredited Items	Standards or Specifications	Certification model	
	explosion-proof switch	GB3836.5-2004(参照 IEC60079-2:2001) GB3836.6-2004(参照 IEC60079-6:1995) GB3836.7-2004(参照 IEC60079-5:1997) GB3836.8-2003(MOD IEC60079-15:2001) GB3836.9-1990(参照 IEC60079-18) GB12476.1-2000(IDT IEC12476-1-1:1999)	Electrical apparatus for explosive atmospheres— Pressurized electrical apparatus "p" Electrical apparatus for explosive atmospheres— oil immersed electrical apparatus "o" Electrical apparatus for explosive atmospheres— Sand filled electrical apparatus "q" Electrical apparatus for explosive atmospheres— Part 8. Type of protection "n" Electrical apparatus for explosive atmospheres— Encapsulated electrical apparatus "m" Electrical apparatus for use in the presence of combustible dust—Part 1-1. Electrical apparatus protected by enclosures and surface temperature limitation —Specification for apparatus	Type testing +Initial inspection of the factory +Follow-up inspection
108.	explosion-proof breaker	GB3836.1-2000 (eqv IEC 60079-0:1998) GB3836.2-2000(eqv IEC 60079-1:1991) GB3836.3-2000(eqv IEC 60079-7:1990) GB3836.4-2000(eqv IEC60079-11:1999) GB3836.5-2004(参照 IEC60079-2:2001) GB3836.6-2004(参照 IEC60079-6:1995) GB3836.7-2004(参照 IEC60079-5:1997) GB3836.8-2003(MOD IEC60079-15:2001) GB3836.9-1990(参照 IEC60079-18)	Electrical apparatus for explosive gas atmospheres—Part1:General requirements Electrical apparatus for explosive gas atmospheres—Part2: Flameproof enclosure "d" Electrical apparatus for explosive gas atmospheres—Part3: Increased safety "e" Electrical apparatus for explosive gas atmospheres—Part4:Intrinsic safety "I" Electrical apparatus for explosive atmospheres— Pressurized electrical apparatus "p" Electrical apparatus for explosive atmospheres— oil immersed electrical apparatus "o" Electrical apparatus for explosive atmospheres— Sand filled electrical apparatus "q" Electrical apparatus for explosive atmospheres— Part 8. Type of protection "n" Electrical apparatus for explosive atmospheres— Encapsulated electrical apparatus "m"	As above

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Type of Certification: Certification of Product

The accredited scope and related standards(norms):

No.	Accredited Items	Standards or Specifications	Certification model	
	explosion-proof breaker	GB12476.1-2000(IDT IEC12476-1-1:1999)	Electrical apparatus for use in the presence of combustible dust—Part 1-1: Electrical apparatus protected by enclosures and surface temperature limitation —Specification for apparatus Type testing +Initial inspection of the factory +Follow-up inspection	
109.	explosion-proof electrical distribution box	GB3836.1-2000 (eqv IEC 60079-0:1998) GB3836.2-2000(eqv IEC 60079-1:1991) GB3836.3-2000(eqv IEC 60079-7:1990) GB3836.4-2000(eqv IEC60079-11:1999) GB3836.5-2004(参照 IEC60079-2:2001) GB3836.6-2004(参照 IEC60079-6:1995) GB3836.7-2004(参照 IEC60079-5:1997) GB3836.8-2003(MOD IEC60079-15:2001) GB3836.9-1990(参照 IEC60079-18) GB12476.1-2000(IDT IEC12476-1-1:1999)	Electrical apparatus for explosive gas atmospheres—Part1:General requirements Electrical apparatus for explosive gas atmospheres—Part2: Flameproof enclosure “d” Electrical apparatus for explosive gas atmospheres—Part3: Increased safety“e” Electrical apparatus for explosive gas atmospheres—Part4:Intrinsic safety “I” Electrical apparatus for explosive atmospheres— Pressurized electrical apparatus “p” Electrical apparatus for explosive atmospheres— oil immersed electrical apparatus “o” Electrical apparatus for explosive atmospheres— Sand filled electrical apparatus “q” Electrical apparatus for explosive atmospheres— Part 8. Type of protection “n” Electrical apparatus for explosive atmospheres— Encapsulated electrical apparatus “m” Electrical apparatus for use in the presence of combustible dust—Part 1-1: Electrical apparatus protected by enclosures and surface temperature limitation —Specification for apparatus	As above
110.	explosion-proof electrical control device	GB3836.1-2000 (eqv IEC 60079-0:1998) GB3836.2-2000(eqv IEC 60079-1:1991) GB3836.3-2000(eqv IEC 60079-7:1990)	Electrical apparatus for explosive gas atmospheres—Part1:General requirements Electrical apparatus for explosive gas atmospheres—Part2: Flameproof enclosure “d” Electrical apparatus for explosive gas atmospheres—Part3: Increased safety“e”	As above

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Type of Certification: Certification of Product

The accredited scope and related standards(norms):

No.	Accredited Items	Standards or Specifications	Certification model	
	explosion-proof electrical control device	GB3836.4-2000(eqv IEC60079-11:1999) GB3836.5-2004(参照 IEC60079-2:2001) GB3836.6-2004(参照 IEC60079-6:1995) GB3836.7-2004(参照 IEC60079-5:1997) GB3836.8-2003(MOD IEC60079-15:2001) GB3836.9-1990(参照 IEC60079-18) GB12476.1-2000(IDT IEC12476-1-1:1999)	Electrical apparatus for explosive gas atmospheres—Part4:Intrinsic safety "I" Electrical apparatus for explosive atmospheres—Pressurized electrical apparatus "p" Electrical apparatus for explosive atmospheres—oil immersed electrical apparatus "o" Electrical apparatus for explosive atmospheres—Sand filled electrical apparatus "q" Electrical apparatus for explosive atmospheres—Part 8: Type of protection "n" Electrical apparatus for explosive atmospheres—Encapsulated electrical apparatus "m" Electrical apparatus for use in the presence of combustible dust—Part 1-1: Electrical apparatus protected by enclosures and surface temperature limitation —Specification for apparatus	Type testing +Initial inspection of the factory +Follow-up inspection
111.	explosion-proof plugs and sockets	GB3836.1-2000 (eqv IEC 60079-0:1998) GB3836.2-2000(eqv IEC 60079-1:1991) GB3836.3-2000(eqv IEC 60079-7:1990) GB3836.4-2000(eqv IEC60079-11:1999) GB3836.8-2003(MOD IEC60079-15:2001) GB3836.9-1990(参照 IEC60079-18) GB12476.1-2000(IDT IEC12476-1-1:1999)	Electrical apparatus for explosive gas atmospheres—Part1:General requirements Electrical apparatus for explosive gas atmospheres—Part2: Flameproof enclosure "d" Electrical apparatus for explosive gas atmospheres—Part3: Increased safety"e" Electrical apparatus for explosive gas atmospheres—Part4:Intrinsic safety "I" Electrical apparatus for explosive atmospheres—Part 8: Type of protection "n" Electrical apparatus for explosive atmospheres—Encapsulated electrical apparatus "m" Electrical apparatus for use in the presence of combustible dust—Part 1-1: Electrical apparatus protected by enclosures and surface temperature limitation —Specification for apparatus	As above
112.	explosion-proof electrical heater (inclusive trace heater)	GB3836.1-2000 (eqv IEC 60079-0:1998)	Electrical apparatus for explosive gas atmospheres—Part1:General requirements	As above

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Type of Certification: Certification of Product

The accredited scope and related standards(norms):

No.	Accredited Items	Standards or Specifications	Certification model	
	explosion-proof electrical heater (inclusive trace heater)	GB3836 2-2000(eqv IEC 60079-1:1991) GB3836.3-2000(eqv IEC 60079-7:1990) GB3836.4-2000(eqv IEC60079-11:1999) GB3836 8-2003(MOD IEC60079-15:2001) GB3836 9-1990(参照 IEC60079-18) GB12476 1-2000(IDT IEC12476-1-1:1999)	Electrical apparatus for explosive gas atmospheres—Part2: Flameproof enclosure "d" Electrical apparatus for explosive gas atmospheres—Part3: Increased safety"e" Electrical apparatus for explosive gas atmospheres—Part4:Intrinsic safety "I" Electrical apparatus for explosive atmospheres—Part 8: Type of protection "n" Electrical apparatus for explosive atmospheres—Encapsulated electrical apparatus "m" Electrical apparatus for use in the presence of combustible dust—Part 1-1: Electrical apparatus protected by enclosures and surface temperature limitation —Specification for apparatus	Type testing +Initial inspection of the factory +Follow-up inspection
113.	explosion-proof terminal box, case	GB3836.1-2000 (eqv IEC 60079-0:1998) GB3836.2-2000(eqv IEC 60079-1:1991) GB3836.3-2000(eqv IEC 60079-7:1990) GB3836.4-2000(eqv IEC60079-11:1999) GB3836.8-2003(MOD IEC60079-15:2001) GB3836.9-1990(参照 IEC60079-18) GB12476.1-2000(IDT IEC12476-1-1:1999)	Electrical apparatus for explosive gas atmospheres—Part1:General requirements Electrical apparatus for explosive gas atmospheres—Part2: Flameproof enclosure "d" Electrical apparatus for explosive gas atmospheres—Part3: Increased safety"e" Electrical apparatus for explosive gas atmospheres—Part4:Intrinsic safety "I" Electrical apparatus for explosive atmospheres—Part 8: Type of protection "n" Electrical apparatus for explosive atmospheres—Encapsulated electrical apparatus "m" Electrical apparatus for use in the presence of combustible dust—Part 1-1: Electrical apparatus protected by enclosures and surface temperature limitation —Specification for apparatus	As above
114.	explosion-proof fittings	GB3836.1-2000 (eqv IEC 60079-0:1998) GB3836.2-2000(eqv IEC 60079-1:1991) GB3836.3-2000(eqv IEC 60079-7:1990)	Electrical apparatus for explosive gas atmospheres—Part1:General requirements Electrical apparatus for explosive gas atmospheres—Part2: Flameproof enclosure "d" Electrical apparatus for explosive gas atmospheres—Part3: Increased safety"e"	As above

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Type of Certification: Certification of Product

The accredited scope and related standards(norms):

No.	Accredited Items	Standards or Specifications	Certification model	
	explosion-proof fittings	GB3836.4-2000(eqv IEC60079-11:1999) GB3836.8-2003(MOD IEC60079-15:2001) GB3836.9-1990(参照 IEC60079-18) GB12476.1-2000(IDT IEC12476-1-1:1999)	Electrical apparatus for explosive gas atmospheres—Part4:Intrinsic safety "I" Electrical apparatus for explosive atmospheres—Part 8: Type of protection "n" Electrical apparatus for explosive atmospheres—Encapsulated electrical apparatus "m" Electrical apparatus for use in the presence of combustible dust—Part 1-1: Electrical apparatus protected by enclosures and surface temperature limitation —Specification for apparatus	Type testing +Initial inspection of the factory +Follow-up inspection
115.	explosion-proof luminary	fixed GB3836.1-2000 (eqv IEC 60079-0:1998) GB3836.2-2000(eqv IEC 60079-1:1991) GB3836.3-2000(eqv IEC 60079-7:1990) GB3836.4-2000(eqv IEC60079-11:1999) GB3836.7-2004(参照 IEC60079-5:1997) GB3836.8-2003(MOD IEC60079-15:2001) GB3836.9-1990(参照 IEC60079-18) GB12476.1-2000(IDT IEC12476-1-1:1999)	Electrical apparatus for explosive gas atmospheres—Part1:General requirements Electrical apparatus for explosive gas atmospheres—Part2: Flameproof enclosure "d" Electrical apparatus for explosive gas atmospheres—Part3: Increased safety"e" Electrical apparatus for explosive gas atmospheres—Part4:Intrinsic safety "I" Electrical apparatus for explosive atmospheres—Sand filled electrical apparatus "q" Electrical apparatus for explosive atmospheres—Part 8: Type of protection "n" Electrical apparatus for explosive atmospheres—Encapsulated electrical apparatus "m" Electrical apparatus for use in the presence of combustible dust—Part 1-1: Electrical apparatus protected by enclosures and surface temperature limitation —Specification for apparatus	As above
116.	explosion-proof portable (handhold) luminary	GB3836.1-2000 (eqv IEC 60079-0:1998) GB3836.2-2000(eqv IEC 60079-1:1991) GB3836.3-2000(eqv IEC 60079-7:1990) GB3836.4-2000(eqv IEC60079-11:1999)	Electrical apparatus for explosive gas atmospheres—Part1:General requirements Electrical apparatus for explosive gas atmospheres—Part2: Flameproof enclosure "d" Electrical apparatus for explosive gas atmospheres—Part3: Increased safety"e" Electrical apparatus for explosive gas atmospheres—Part4:Intrinsic safety "I"	As above

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The accredited scope and related standards(norms):

No.	Accredited Items	Standards or Specifications	Certification model	
	explosion-proof portable (handhold) luminary	GB3836.7-2004(参照 IEC60079-5:1997) GB3836.8-2003(MOD IEC60079-15:2001) GB3836.9-1990(参照 IEC60079-18) GB12476.1-2000(IDT IEC12476-1-1:1999)	Electrical apparatus for explosive atmospheres— Sand filled electrical apparatus “q” Electrical apparatus for explosive atmospheres— Part 8: Type of protection “n” Electrical apparatus for explosive atmospheres— Encapsulated electrical apparatus “m” Electrical apparatus for use in the presence of combustible dust—Part 1-1: Electrical apparatus protected by enclosures and surface temperature limitation —Specification for apparatus	Type testing +Initial inspection of the factory +Follow-up inspection
117.	ballast for explosion-proof luminary	GB3836.1-2000 (eqv IEC 60079-0:1998) GB3836.2-2000(eqv IEC 60079-1:1991) GB3836.3-2000(eqv IEC 60079-7:1990) GB3836.4-2000(eqv IEC60079-11:1999) GB3836.7-2004(参照 IEC60079-5:1997) GB3836.8-2003(MOD IEC60079-15:2001) GB3836.9-1990(参照 IEC60079-18) GB12476.1-2000(IDT IEC12476-1-1:1999)	Electrical apparatus for explosive gas atmospheres—Part1:General requirements Electrical apparatus for explosive gas atmospheres—Part2: Flameproof enclosure “d” Electrical apparatus for explosive gas atmospheres—Part3: Increased safety“e” Electrical apparatus for explosive gas atmospheres—Part4:Intrinsic safety “I” Electrical apparatus for explosive atmospheres— Sand filled electrical apparatus “q” Electrical apparatus for explosive atmospheres— Part 8. Type of protection “n” Electrical apparatus for explosive atmospheres— Encapsulated electrical apparatus “m” Electrical apparatus for use in the presence of combustible dust—Part 1-1: Electrical apparatus protected by enclosures and surface temperature limitation —Specification for apparatus	As above
118.	explosion-proof signal lamp	GB3836.1-2000 (eqv IEC 60079-0:1998) GB3836.2-2000(eqv IEC 60079-1:1991) GB3836.3-2000(eqv IEC 60079-7:1990)	Electrical apparatus for explosive gas atmospheres—Part1:General requirements Electrical apparatus for explosive gas atmospheres—Part2: Flameproof enclosure “d” Electrical apparatus for explosive gas atmospheres—Part3: Increased safety“e”	As above

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APPENDIX TO CERTIFICATE OF ACCREDITATION

ACCREDITED SCOPES

Registration No.: CNAB002-P

Name: China Certification Center For Quality Mark

Address: The 12th Floor, Building B of Keyuan Plaza, No.A-105 Xisanhuan North Road, Haidian District, Beijing, 100037

Type of Certification: Certification of Product

The accredited scope and related standards(norms):

No.	Accredited Items	Standards or Specifications	Certification model	
	explosion-proof signal lamp	GB3836.4-2000(eqv IEC60079-11:1999) GB3836.7-2004(参照 IEC60079-5:1997) GB3836.8-2003(MOD IEC60079-15:2001) GB3836.9-1990(参照 IEC60079-18) GB12476.1-2000(IDT IEC12476-1-1:1999)	Electrical apparatus for explosive gas atmospheres—Part4:Intrinsic safety "I" Electrical apparatus for explosive atmospheres—Sand filled electrical apparatus "q" Electrical apparatus for explosive atmospheres—Part 8: Type of protection "n" Electrical apparatus for explosive atmospheres—Encapsulated electrical apparatus "m" Electrical apparatus for use in the presence of combustible dust—Part 1-1: Electrical apparatus protected by enclosures and surface temperature limitation —Specification for apparatus	Type testing +Initial inspection of the factory +Follow-up inspection
119.	explosion-proof lampholder and fittings	GB3836.1-2000 (eqv IEC 60079-0:1998) GB3836.2-2000(eqv IEC 60079-1:1991) GB3836.3-2000(eqv IEC 60079-7:1990) GB3836.4-2000(eqv IEC60079-11:1999) GB3836.7-2004(参照 IEC60079-5:1997) GB3836.8-2003(MOD IEC60079-15:2001) GB3836.9-1990(参照 IEC60079-18) GB12476.1-2000(IDT IEC12476-1-1:1999)	Electrical apparatus for explosive gas atmospheres—Part1:General requirements Electrical apparatus for explosive gas atmospheres—Part2: Flameproof enclosure "d" Electrical apparatus for explosive gas atmospheres—Part3: Increased safety "e" Electrical apparatus for explosive gas atmospheres—Part4:Intrinsic safety "I" Electrical apparatus for explosive atmospheres—Sand filled electrical apparatus "q" Electrical apparatus for explosive atmospheres—Part 8: Type of protection "n" Electrical apparatus for explosive atmospheres—Encapsulated electrical apparatus "m" Electrical apparatus for use in the presence of combustible dust—Part 1-1: Electrical apparatus protected by enclosures and surface temperature limitation —Specification for apparatus	As above
120.	Explosion-proof pressure meter	GB3836.1-2000 (eqv IEC 60079-0:1998) GB3836.2-2000(eqv IEC 60079-1:1991)	Electrical apparatus for explosive gas atmospheres—Part1:General requirements Electrical apparatus for explosive gas atmospheres—Part2: Flameproof enclosure "d"	As above

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Type of Certification: Certification of Product

The accredited scope and related standards(norms):

No.	Accredited Items	Standards or Specifications	Certification model	
	Explosion-proof pressure meter	GB3836.3-2000(eqv IEC 60079-7:1990) GB3836.4-2000(eqv IEC60079-11:1999) GB3836.5-2004(参照 IEC60079-2:2001) GB3836.8-2003(MOD IEC60079-15:2001) GB3836.9-1990(参照 IEC60079-18) GB12476.1-2000(IDT IEC12476-1-1:1999)	Electrical apparatus for explosive gas atmospheres—Part3: Increased safety“e” Electrical apparatus for explosive gas atmospheres—Part4:Intrinsic safety “I” Electrical apparatus for explosive atmospheres—Pressurized electrical apparatus “p” Electrical apparatus for explosive atmospheres—Part 8: Type of protection “n” Electrical apparatus for explosive atmospheres—Encapsulated electrical apparatus “m” Electrical apparatus for use in the presence of combustible dust—Part 1-1: Electrical apparatus protected by enclosures and surface temperature limitation —Specification for apparatus	Type testing +Initial inspection of the factory +Follow-up inspection
121.	explosion-proof temperature meter	GB3836.1-2000 (eqv IEC 60079-0:1998) GB3836.2-2000(eqv IEC 60079-1:1991) GB3836.3-2000(eqv IEC 60079-7:1990) GB3836.4-2000(eqv IEC60079-11:1999) GB3836.5-2004(参照 IEC60079-2:2001) GB3836.8-2003(MOD IEC60079-15:2001) GB3836.9-1990(参照 IEC60079-18) GB12476.1-2000(IDT IEC12476-1-1:1999)	Electrical apparatus for explosive gas atmospheres—Part1:General requirements Electrical apparatus for explosive gas atmospheres—Part2: Flameproof enclosure “d” Electrical apparatus for explosive gas atmospheres—Part3: Increased safety“e” Electrical apparatus for explosive gas atmospheres—Part4:Intrinsic safety “I” Electrical apparatus for explosive atmospheres—Pressurized electrical apparatus “p” Electrical apparatus for explosive atmospheres—Part 8: Type of protection “n” Electrical apparatus for explosive atmospheres—Encapsulated electrical apparatus “m” Electrical apparatus for use in the presence of combustible dust—Part 1-1: Electrical apparatus protected by enclosures and surface temperature limitation —Specification for apparatus	As above
122.	explosion-proof meter	flow GB3836.1-2000 (eqv IEC 60079-0:1998) * * *	Electrical apparatus for explosive gas atmospheres—Part1.General requirements * * *	As above

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Type of Certification: Certification of Product

The accredited scope and related standards(norms):

No.	Accredited Items	Standards or Specifications	Certification model
	explosion-proof meter	flow	
		GB3836.2-2000(eqv IEC 60079-1:1991)	Electrical apparatus for explosive gas atmospheres—Part2: Flameproof enclosure "d"
		GB3836.3-2000(eqv IEC 60079-7:1990)	Electrical apparatus for explosive gas atmospheres—Part3: Increased safety "e"
		GB3836.4-2000(eqv IEC 60079-11:1999)	Electrical apparatus for explosive gas atmospheres—Part4: Intrinsic safety "I"
		GB3836.5-2004(参照 IEC 60079-2:2001)	Electrical apparatus for explosive atmospheres—Pressurized electrical apparatus "p"
		GB3836.8-2003(MOD IEC 60079-15:2001)	Electrical apparatus for explosive atmospheres—Part 8: Type of protection "n"
		GB3836.9-1990(参照 IEC 60079-18)	Electrical apparatus for explosive atmospheres—Encapsulated electrical apparatus "m"
		GB12476.1-2000(IDT IEC 12476-1-1:1999)	Electrical apparatus for use in the presence of combustible dust—Part 1-1: Electrical apparatus protected by enclosures and surface temperature limitation —Specification for apparatus
123.	explosion-proof meter	position	
		GB3836.1-2000 (eqv IEC 60079-0:1998)	Electrical apparatus for explosive gas atmospheres—Part1: General requirements
		GB3836.2-2000(eqv IEC 60079-1:1991)	Electrical apparatus for explosive gas atmospheres—Part2: Flameproof enclosure "d"
		GB3836.3-2000(eqv IEC 60079-7:1990)	Electrical apparatus for explosive gas atmospheres—Part3: Increased safety "e"
		GB3836.4-2000(eqv IEC 60079-11:1999)	Electrical apparatus for explosive gas atmospheres—Part4: Intrinsic safety "I"
		GB3836.5-2004(参照 IEC 60079-2:2001)	Electrical apparatus for explosive atmospheres—Pressurized electrical apparatus "p"
		GB3836.8-2003(MOD IEC 60079-15:2001)	Electrical apparatus for explosive atmospheres—Part 8: Type of protection "n"
		GB3836.9-1990(参照 IEC 60079-18)	Electrical apparatus for explosive atmospheres—Encapsulated electrical apparatus "m"
		GB12476.1-2000(IDT IEC 12476-1-1:1999)	Electrical apparatus for use in the presence of combustible dust—Part 1-1: Electrical apparatus protected by enclosures and surface temperature limitation —Specification for apparatus

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Type of Certification: Certification of Product

The accredited scope and related standards(norms):

No.	Accredited Items	Standards or Specifications	Certification model	
124.	explosion-proof display meter	GB3836.1-2000 (eqv IEC 60079-0:1998) GB3836.2-2000 (eqv IEC 60079-1:1991) GB3836.3-2000 (eqv IEC 60079-7:1990) GB3836.4-2000 (eqv IEC 60079-11:1999) GB3836.5-2004 (参照 IEC 60079-2:2001) GB3836.8-2003 (MOD IEC 60079-15:2001) GB3836.9-1990 (参照 IEC 60079-18) GB12476.1-2000 (IDT IEC 12476-1-1:1999)	Electrical apparatus for explosive gas atmospheres—Part 1: General requirements Electrical apparatus for explosive gas atmospheres—Part 2: Flameproof enclosure “d” Electrical apparatus for explosive gas atmospheres—Part 3: Increased safety “e” Electrical apparatus for explosive gas atmospheres—Part 4: Intrinsic safety “I” Electrical apparatus for explosive atmospheres—Pressurized electrical apparatus “p” Electrical apparatus for explosive atmospheres—Part 8: Type of protection “n” Electrical apparatus for explosive atmospheres—Encapsulated electrical apparatus “m” Electrical apparatus for use in the presence of combustible dust—Part 1-1: Electrical apparatus protected by enclosures and surface temperature limitation —Specification for apparatus	Type testing +Initial inspection of the factory +Follow-up inspection
125.	Explosion-proof electrical control valve, inclusive explosion-proof electro-pneumatic transfer, electrical positioning for valve	GB3836.1-2000 (eqv IEC 60079-0:1998) GB3836.2-2000 (eqv IEC 60079-1:1991) GB3836.3-2000 (eqv IEC 60079-7:1990) GB3836.4-2000 (eqv IEC 60079-11:1999) GB3836.5-2004 (参照 IEC 60079-2:2001) GB3836.8-2003 (MOD IEC 60079-15:2001) GB3836.9-1990 (参照 IEC 60079-18)	Electrical apparatus for explosive gas atmospheres—Part 1: General requirements Electrical apparatus for explosive gas atmospheres—Part 2: Flameproof enclosure “d” Electrical apparatus for explosive gas atmospheres—Part 3: Increased safety “e” Electrical apparatus for explosive gas atmospheres—Part 4: Intrinsic safety “I” Electrical apparatus for explosive atmospheres—Pressurized electrical apparatus “p” Electrical apparatus for explosive atmospheres—Part 8: Type of protection “n” Electrical apparatus for explosive atmospheres—Encapsulated electrical apparatus “m”	As above

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Type of Certification: Certification of Product

The accredited scope and related standards(norms):

No.	Accredited Items	Standards or Specifications	Certification model	
	Explosion-proof electrical control valve, inclusive explosion-proof electro-pneumatic transfer, electrical positioning for valve	GB12476.1-2000(IDT IEC12476-1-1:1999)	Electrical apparatus for use in the presence of combustible dust—Part 1-1: Electrical apparatus protected by enclosures and surface temperature limitation —Specification for apparatus	
126.	Explosion-proof electro-magnetic valve	GB3836.1-2000 (eqv IEC 60079-0:1998) GB3836.2-2000(eqv IEC 60079-1:1991) GB3836.3-2000(eqv IEC 60079-7:1990) GB3836.4-2000(eqv IEC60079-11:1999) GB3836.5-2004(参照 IEC60079-2:2001) GB3836.8-2003(MOD IEC60079-15:2001) GB3836.9-1990(参照 IEC60079-18) GB12476.1-2000(IDT IEC12476-1-1:1999)	Electrical apparatus for explosive gas atmospheres—Part1:General requirements Electrical apparatus for explosive gas atmospheres—Part2: Flameproof enclosure “d” Electrical apparatus for explosive gas atmospheres—Part3: Increased safety“e” Electrical apparatus for explosive gas atmospheres—Part4:Intrinsic safety “I” Electrical apparatus for explosive atmospheres—Pressurized electrical apparatus “p” Electrical apparatus for explosive atmospheres—Part 8: Type of protection “n” Electrical apparatus for explosive atmospheres—Encapsulated electrical apparatus “m” Electrical apparatus for use in the presence of combustible dust—Part 1-1: Electrical apparatus protected by enclosures and surface temperature limitation —Specification for apparatus	Type testing +Initial inspection of the factory +Follow-up inspection As above
127.	Explosion-proof meter panel (inclusive explosion-proof control meter)	GB3836.1-2000 (eqv IEC 60079-0:1998) GB3836.2-2000(eqv IEC 60079-1:1991) GB3836.3-2000(eqv IEC 60079-7:1990) GB3836.4-2000(eqv IEC60079-11:1999) GB3836.5-2004(参照 IEC60079-2:2001)	Electrical apparatus for explosive gas atmospheres—Part1:General requirements Electrical apparatus for explosive gas atmospheres—Part2: Flameproof enclosure “d” Electrical apparatus for explosive gas atmospheres—Part3: Increased safety“e” Electrical apparatus for explosive gas atmospheres—Part4:Intrinsic safety “I” Electrical apparatus for explosive atmospheres—Pressurized electrical apparatus “p”	As above

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Type of Certification: Certification of Product

The accredited scope and related standards(norms):

No.	Accredited Items	Standards or Specifications	Certification model	
	Explosion-proof meter panel (inclusive explosion-proof control meter)	GB3836.8-2003(MOD IEC 60079-15:2001) GB3836.9-1990(参照 IEC60079-18) GB12476.1-2000(IDT IEC12476-1-1:1999)	Electrical apparatus for explosive atmospheres—Part 8: Type of protection “n” Electrical apparatus for explosive atmospheres—Encapsulated electrical apparatus “m” Electrical apparatus for use in the presence of combustible dust—Part 1-1. Electrical apparatus protected by enclosures and surface temperature limitation —Specification for apparatus	Type testing +Initial inspection of the factory +Follow-up inspection
128.	explosion-proof detector and alarm for explosive gases (inclusive explosion-proof detector and alarm for fire)	GB3836.1-2000 (eqv IEC 60079-0:1998) GB3836.2-2000(eqv IEC 60079-1:1991) GB3836.3-2000(eqv IEC 60079-7:1990) GB3836.4-2000(eqv IEC60079-11:1999) GB3836.5-2004(参照 IEC60079-2:2001) GB3836.8-2003(MOD IEC60079-15:2001) GB3836.9-1990(参照 IEC60079-18) GB12476.1-2000(IDT IEC12476-1-1:1999)	Electrical apparatus for explosive gas atmospheres—Part1:General requirements Electrical apparatus for explosive gas atmospheres—Part2: Flameproof enclosure “d” Electrical apparatus for explosive gas atmospheres—Part3: Increased safety“e” Electrical apparatus for explosive gas atmospheres—Part4:Intrinsic safety “I” Electrical apparatus for explosive atmospheres—Pressurized electrical apparatus “p” Electrical apparatus for explosive atmospheres—Part 8: Type of protection “n” Electrical apparatus for explosive atmospheres—Encapsulated electrical apparatus “m” Electrical apparatus for use in the presence of combustible dust—Part 1-1: Electrical apparatus protected by enclosures and surface temperature limitation —Specification for apparatus	As above
129.	explosion-proof safety barrier (inclusive other related device)	GB3836.1-2000 (eqv IEC 60079-0:1998) GB3836.2-2000(eqv IEC 60079-1:1991) GB3836.3-2000(eqv IEC 60079-7:1990)	Electrical apparatus for explosive gas atmospheres—Part1:General requirements Electrical apparatus for explosive gas atmospheres—Part2: Flameproof enclosure “d” Electrical apparatus for explosive gas atmospheres—Part3: Increased safety“e”	As above

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Type of Certification: Certification of Product

The accredited scope and related standards(norms):

No.	Accredited items	Standards or Specifications	Certification model	
	explosion-proof safety barrier (inclusive other related device)	GB3836.4-2000(eqv IEC60079-11:1999) GB3836.5-2004(参照 IEC60079-2:2001) GB3836.8-2003(MOD IEC60079-15:2001) GB3836.9-1990(参照 IEC60079-18) GB12476.1-2000(IDT IEC12476-1-1:1999)	Electrical apparatus for explosive gas atmospheres—Part4:Intrinsic safety "I" Electrical apparatus for explosive atmospheres—Pressurized electrical apparatus "p" Electrical apparatus for explosive atmospheres—Part 8: Type of protection "n" Electrical apparatus for explosive atmospheres—Encapsulated electrical apparatus "m" Electrical apparatus for use in the presence of combustible dust—Part 1-1: Electrical apparatus protected by enclosures and surface temperature limitation —Specification for apparatus	Type testing +Initial inspection of the factory +Follow-up inspection
130.	explosion-proof communication device	GB3836.1-2000 (eqv IEC 60079-0:1998) GB3836.2-2000(eqv IEC 60079-1:1991) GB3836.3-2000(eqv IEC 60079-7:1990) GB3836.4-2000(eqv IEC60079-11:1999) GB3836.5-2004(参照 IEC60079-2:2001) GB3836.8-2003(MOD IEC60079-15:2001) GB3836.9-1990(参照 IEC60079-18) GB12476.1-2000(IDT IEC12476-1-1:1999)	Electrical apparatus for explosive gas atmospheres—Part1:General requirements Electrical apparatus for explosive gas atmospheres—Part2: Flameproof enclosure "d" Electrical apparatus for explosive gas atmospheres—Part3: Increased safety "e" Electrical apparatus for explosive gas atmospheres—Part4:Intrinsic safety "I" Electrical apparatus for explosive atmospheres—Pressurized electrical apparatus "p" Electrical apparatus for explosive atmospheres—Part 8: Type of protection "n" Electrical apparatus for explosive atmospheres—Encapsulated electrical apparatus "m" Electrical apparatus for use in the presence of combustible dust—Part 1-1: Electrical apparatus protected by enclosures and surface temperature limitation —Specification for apparatus	As above

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