**INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC SYSTEM FOR**

**CERTIFICATION TO STANDARDS RELATING TO EQUIPMENT FOR USE IN**

**EXPLOSIVE ATMOSPHERES (IECEx SYSTEM)**

**TITLE: Scope Extension Assessment Report for** **Shanghai Institute of Quality Inspection and Technical Research-China National Lighting Fitting Quality Inspection and Testing Centre (SQI\_ZM) an Accepted ExTL within the IECEx System, Equipment Scheme 02, to include IEC 60079-2, IEC 60079-5, IEC 60079-13, IEC 60079-25 and ISO 80079-36 and ISO 80079-37 in their scope.**

**Circulated To: Members of the IECEx Management Committee, ExMC**

**Introduction**

Shanghai Institute of Quality Inspection and Technical Research-China National Lighting Fitting Quality Inspection and Testing Centre (SQI\_ZM) and an Accepted ExTL within the IECEx System, Equipment Scheme 02, has applied to include the following Standards within their scope. A special assessment was arranged and conducted in accordance with OD060.

***Scope Extension***

*IEC 60079-2 Edition 6.0 Explosive atmospheres - Part 2: Equipment protection by pressurized*

*enclosure “p’*

*IEC 60079-5 Edition 4.0 Explosive atmospheres - Part 5: Equipment protection by powder filling “q”*

*IEC 60079-13 Edition 2.0 Explosive atmospheres - Part 13: Equipment protection by pressurized room "p" and artificially ventilated room "v"*

*IEC 60079-25 Edition 3.0 Explosive atmospheres – Part 25: Intrinsically safe electrical systems*

*IS0 80079-36 Edition 1.0 Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres – Basic method and requirements*

*ISO 80079-37 Edition 1.0 Explosive atmospheres - Part 37: Non-electrical equipment for explosive atmospheres – Non electrical type of protection constructional safety” c” control of ignition source” b”, liquid immersion ”k”*

This report details the assessment findings of this scope extension with the IECEx

Assessment Team recommending the acceptance of the above scope extension.

***This document is hereby submitted for ExMC approval via correspondence using the IECEx on-line voting system.  ExMC Members are requested to submit their vote via the IECEx On-line*** [***Ballot System***](https://www.iecex.com/ballot) ***by the closing date 2022 05 16***

***Please refer to OD 050 for guidance on the “IECEx On-line voting system.”***

*Chris Agius*

**IECEx Secretary**

|  |  |
| --- | --- |
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IEC System for certification to standards relating to equipment for use in Explosive Atmospheres (IECEx System)

IECEx Assessment Report Form, F-003

IECEx assessment report form for use by IECEx assessment teams to report assessments conducted according to the relevant IECEx assessment procedures of:

Operational Document IECEx OD 003-2 for the Certified Equipment Scheme

Operational Document IECEx OD 316-\* for the Certified Service Facility Scheme

Operational Document IECEx OD 422 for the IECEx Conformity Mark Licensing Scheme

Operational Document IECEx OD 501 for the Personnel Competence Scheme

IECEx ExTL assessment report for

Shanghai Institute of Quality Inspection and Technical Research-China National Lighting Fitting Quality Inspection and Testing Centre (SQI\_ZM)

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

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# Assessment information

## Type of body covered by this assessment:

|  |  |
| --- | --- |
| ExCB for IECEx Certified Equipment Scheme | [ ]  |
| ExTL for IECEx Certified Equipment Scheme | [x]  |
| ATF for IECEx Certified Equipment Scheme | [ ]  |
| ExCB for IECEx Certified Service Facilities Scheme | [ ]  |
| ExCB for IECEx Conformity Mark Licensing System | [ ]  |
| ExCB for IECEx Certification of Personnel Competency Scheme | [ ]  |

NOTE 1 ExCB - IECEx Certification Body

NOTE 2 ExTL - IECEx Testing Laboratory

 NOTE 3 ATF - Additional Testing Facility

## Type of assessment:

|  |  |
| --- | --- |
| Pre-assessment for candidate body | [ ]  |
| Initial assessment for candidate body | [ ]  |
| Surveillance  | [ ]  |
| Re-assessment  | [ ]  |
| Scope extension | [x]  |

## Details of body

### Country

Peoples Republic of China

### Name of body

Shanghai Institute of Quality Inspection and Technical Research-China National Lighting Fitting Quality Inspection and Testing Centre (SQI\_ZM)

### Name and title of nominated principal contact

|  |  |  |
| --- | --- | --- |
| Name | Title | E-mail address |
| Ms. Yang Yue | Vice-general manager | yangyue@sqi.org.cn |

## Assessment information

### Members of the assessment team

|  |  |
| --- | --- |
| Name  | Role  |
| Mr. Ajay Maira | IECEx Lead Assessor |

### Place(s) of assessment

|  |  |
| --- | --- |
| (By remote)No. 900 JiangYue Road, Shanghai Main Ex Testing Laboratory | No. 3, Lane 21, NanDa Road, Shanghai  |

### Assessment date(s)

2021-10-18 to 2021-10-20 with follow ups till 2022-03-17

## Application information and background information on the assessment

SQI\_ZM was assessed and accepted as an IECEx Testing Laboratory in 2018 as recorded in ExMC/1453/DV with the scope of Standards as recorded in the Annex A of this document. SQI\_ZM have now applied for an extension in scope of Standards.

SQI\_ZM have an agreement with IMQ S.p.A. which is recognized as ExCB in IECEx Certified Equipment Scheme. The relationship between the laboratory and the ExCB was reviewed and accepted in the earlier assessment of 2018.

SQI\_ZM have also developed an agreement with CQM China which is recognized as ExCB in IECEx Certified Equipment Scheme. The relationship between the laboratory and the ExCB was reviewed and accepted in 2019. (ref ExMC/1525/DV).

This assessment was carried out by Remote as per OD 060 with the witnessed tests at both the locations listed under 1.4.2. See details in 4.8 of this report.

The responsibilities for testing were identified to be with Mr. Chen Chaozhong, the Laboratory Vice-Director of SQI\_ZM.

The list of equipment for Ex testing was checked for the major items needed.

The scope of the Standards requested was checked to be within the scope of IMQ as the ExCB for most of the Standards except IEC 60079-2 and IEC 60079-13.

The scope of the Standards requested was checked to be within the scope of CQM as the ExCB.

It was noted that SQI\_ZM participate in the IECEx PTP program.

## Scopes

### ExCB scope for equipment certification scheme

The request for extension of scope is by the ExTL

*IEC 60079-2 Edition 6.0 Explosive atmospheres - Part 2: Equipment protection by pressurized*

*enclosure “p’*

*IEC 60079-5 Edition 4.0 Explosive atmospheres - Part 5: Equipment protection by powder filling “q”*

*IEC 60079-13 Edition 2.0 Explosive atmospheres - Part 13: Equipment protection by pressurized room "p" and artificially ventilated room "v"*

*IEC 60079-25 Edition 3.0 Explosive atmospheres – Part 25: Intrinsically safe electrical systems*

*IS0 80079-36 Edition 1.0 Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres – Basic method and requirements*

*ISO 80079-37 Edition 1.0 Explosive atmospheres - Part 37: Non-electrical equipment for explosive atmospheres – Non electrical type of protection constructional safety ”c” control of ignition source ”b”, liquid immersion ”k”*

The scope of the Standards requested was checked to be within the scope of IMQ as the ExCB for most of the Standards except IEC 60079-2 and IEC 60079-13.

The scope of the Standards requested was checked to be within the scope of CQM as the ExCB.

See scope of ExTL in Annex A.

NOTE 1 Unless otherwise indicated, earlier editions of standards (even if with a different number) are considered to be covered in the above scope for the purposes of the assessment.

### ExTL scope

The ExTL scope is included in Annex A.

### ATF Scope

Not applicable.

### ExCB scope for Service Facilities Scheme

Not applicable.

## ExCB scope for Conformity Mark Licensing Scheme

Not applicable.

## ExCB scope for IECEx Personnel Competence Scheme

Not applicable.

# Common information

## Legal entity of body

The legal entity of SQI\_ZM was assessed and accepted in ExMC/1453/DV. This has not changed, except for an update of the name from:

“Shanghai Institute of Quality Inspection and Technical Research - China National Lighting Fitting Quality Supervision Testing Centre (SQI\_ZM)”

to

“Shanghai Institute of Quality Inspection and Technical Research - China National Lighting Fitting Quality Inspection and Testing Centre (SQI\_ZM)”

## Financial support

The financial support of the legal entity of SQI\_ZM was assessed and accepted in ExMC/1453/DV. There is no change.

## History

As recorded in ExMC/1453/DV. There is no change.

## Documentation

### Quality manual

As recorded in ExMC/1453/DV. There is no change.

### Procedures

As recorded in ExMC/1453/DV, with additional procedures for the tests and assessments for the increased scope of Standards.

### Work instructions

As recorded in ExMC/1453/DV, with additional work instructions for the tests and assessments for the increased scope of Standards

### Records (including test records where relevant)

As recorded in ExMC/1453/DV. There is no change.

### Document change control

As recorded in ExMC/1453/DV. There is no change.

## Confidentiality

As recorded in ExMC/1453/DV. There is no change.

## Communication with public and customers (Hard copy and Electronic)

As recorded in ExMC/1453/DV. There is no change.

## Recognitions and agreements

As recorded in ExMC/1453/DV for the agreement between SQI\_ZM and IMQ.

Additionally, as recorded in ExMC/1525/DV between SQI\_ZM and CQM.

## Internal audit

As recorded in ExMC/1453/DV. This was not additionally assessed.

## Contracting, subcontracting and witness testing

### Contracting

SQI\_ZM only uses IMQ and CQM as contractors to deliver IECEx services.

### Subcontracting

As recorded in ExMC/1453/DV. There is no change.

### Off-site and Witnes testing

As recorded in ExMC/1453/DV. There is no change.

## Training and competence

As recorded in ExMC/1453/DV. There is no change. The training and competence of the staff for the scope extensions was based on interviews and practical demonstration of witness tests.

Details of staff competencies are included in the site assessment report.

## Complaints and appeals (including appeals to IECEx)

 As recorded in ExMC/1453/DV. There is no change.

## Impartiality

As recorded in ExMC/1453/DV. There is no change

## Active involvement in development of Decision Sheets

As recorded in ExMC/1453/DV. There is no change.

## Special facts to be noted

The application for the extension in scope was reviewed and discussed during the assessment and was voluntarily reduced to that shown in Annex A due to time urgencies.

## Supporting documentation

Copies of additional supporting information for this assessment have been provided to the applicant and the IECEx Secretariat. These are included in a site assessment report provided separately and include:

* Details of issues raised and how these have been resolved
* Completed Technical Capability Document (TCD)
* Photos of the facilities/tests witnessed are included in the above TCD
* Information on competencies

## Recommendations

Based on the assessment performed on 2021-10-18 to 2021-10-20 with follow ups till 2022-03-17, SQI\_ZM is recommended for continued acceptance in the IECEx scheme and extension in the scope of Standards as provided in Annex A as:

* An ExTL in the IECEx Certified Equipment Scheme

The scope of the national laboratory accreditation CNAS does not include ISO 80079-36 and ISO 80079-37. This shall be taken into account by IECEx for annual surveillance.

All issues found during the assessment have been resolved.

|  |  |  |
| --- | --- | --- |
| Ajay Maira |  |  |
| IECEx Lead Assessor |  |  |

Date: 2022-03-28

# ExCB for IECEx Certified Equipment Scheme

This assessment report is for ExTL only.

#  ExTL for IECEx Certified Equipment Scheme

## Assessment references

### General references

1. IECEx02 IECEx Certified Equipment Scheme covering equipment for use in explosive atmospheres – Rules of Procedure
2. IECEx OD003-2 Assessment, surveillance assessment and re-assessment of ExCBs and ExTLs operating in the IECEx 02, IECEx Certified Equipment Scheme
3. IECEx OD009 Issuing of CoCs, ExTRs and QARs
4. ISO/IEC 17025 General requirements for the competence of testing and calibration laboratories
5. IECEx OD 018 Harmonised check list for testing and calibration laboratories ISO/IEC 17025
6. IECEx TCD 60079, ISO 80079 Series and ISO 16852 Technical Capability Document
7. ExTAG decision sheets (DSs)
8. IECEx OD 202 IECEx Certified Equipment Scheme – IECEx Proficiency Testing Program

NOTE The latest editions of the above documents were applied, unless otherwise specified.

### Additional references applied for this assessment

Application form ExMC/251B/Q completed by SQI\_ZM on 2021-03-05 was used for this assessment.

OD 280 Guide to Certification of Non-electrical Equipment and Protective Systems

## ExTL persons interviewed

|  |  |
| --- | --- |
| Name | Position |
| **Chen Chaozhong**  | General Manager |
| **Yue Yang** | Vice-general Manager |
| **Zaidao Yu** | Vice-general Manager |
| **Jihong Qiu** | Quality Manager |
| **Licheng Yu** | Quality Consultant |
| **Erli Liu** | Marketing Manager |
| **Bo Zhang** | Technical vice-Manager |
| **Jigang Lin** | Technical vice-Manager |
| **Hui juan Yang** | Device Administrator |
| **Fancang Gong** | Technical vice-Manager |
| **Changqing Ru** | Engineer |
| **Wentao Zhang** | Engineer |
| **Bing Huang** | Young Engineer |
| **Lu Zhang** | Quality Engineer |

## Associated ExCB(s)

The associated ExCB’s are IMQ S.p.A. and CQM, both of which are recognized as ExCB’s in IECEx Certified Equipment Scheme.

IMQ S.p.A: Refer to ExMC/1453/DV for the agreement between SQI\_ZM and IMQ S.p.A. It is noted that IMQ does not currently have IEC 60079-2 and IEC 60079-13 in their scope.

CQM: Refer to ExMC/1525/DV for the agreement between SQI\_ZM and CQM. It is noted that CQM has all the Standards requested by SQI\_ZM in their scope.

## Organisation

### Names, titles and experience of the senior executives

|  |  |  |
| --- | --- | --- |
| Name | Title | Experience (years) |
| Yu Yimin | Director | 6 years |
| **Chen Chaozhong**  | General Manager | 41 years |
| **Yue Yang** | Vice-general Manager | 18 years |
| **Zaidao Yu** | Vice-general Manager | 11 years |
| **Bo Zhang** | Technical vice-Manager | 14 years |
| **Jigang Lin** | Technical vice-Manager | 18 years |
| **Fancang Gong** | Technical vice-Manager | 37 years |

### Name, title and experience of the quality management representative

|  |  |  |
| --- | --- | --- |
| Name | Title | Experience (years) |
| **Jihong Qiu** | Quality Manager | 29 years |

### Other employees in ExTL activity

|  |  |  |
| --- | --- | --- |
| Name | Title/responsibility | Experience in Ex (years) |
| **Changqing Ru** | Engineer | 3 years |
| **Wentao Zhang** | Engineer | 8 years |
| **Bing Huang** | Young Engineer | 1 year |
| **Lu Zhang** | Quality Engineer | 12 years |
|  |  |  |

## Organizational structure

This has been included in Annex B.

## Resources

SQI\_ZM was found to have the appropriate procedures, staff resources and testing equipment to carry out assessment and testing to the standards shown in the proposed extension of scope. Staff with suitable skills and competency were witnessed during the assessment.

## Test reports issued

As this is a scope extension application, there are currently no IECEx reports issued yet. Several partial reports were available for the scope extension.

## National accreditation

It was checked that SQI\_ZM have CNAS accreditation for 17025 certificate L0128 and scope covering the full scope of the Standards that have been requested. The certificate is in the name of the head office at Cang Wu Road, with the several locations including the main location for Ex Testing of SQI\_ZM at 900, Jiangyue Road, Shanghai. The location at No. 3, Lane 21, Nada Road, Shanghai is where most of the Ex tests are conducted.

The national accreditation certification for ISO/IEC 17025 is shown in Annex E.

The scope of the national laboratory accreditation CNAS does not include ISO 80079-36 and ISO 80079-37. This shall be taken into account by IECEx for annual surveillance.

## Calibration

All equipment used to take measurements for the extension in scope was found adequately calibrated

##  Tests witnessed during the assessment visit

The following tests were witnessed during the assessment visit:

|  |  |  |  |
| --- | --- | --- | --- |
| Standard and edition | Clause number | Test | Comments |
| IEC 60079-2:2014 (Ed 6.0) | 16.4 | Purge test | Satisfactory |
| IEC 60079-5:2015(Ed 4.0) | 5.1.3 | Dielectric strength test of the Filling Material | Satisfactory |
| \*IEC 60079-11:2011(Ed 6.0) | 10.2 | Dielectric Test | Satisfactory |
| \*IEC 60079-11:2011(Ed 6.0) | 10.1 | Spark Ignition Test | Satisfactory. But see Additional comments below |
| IEC 60079-25:2020(Ed 3.0) | 12 | IS System assessment Test | Satisfactory |
| ISO 80079-36:2016(Ed 1.0) | Annex D | Charging tests with non-conductive materials | Satisfactory |
| ISO 80079-36:2016(Ed 1.0) | 5 | Mechanical Ignition Hazard Test | Satisfactory |
| ISO 80079-36:2016(Ed 1.0) | 8.2.2 | Small Component Thermal Ignition Test | Satisfactory |

Additional comments: \*Witness testing for Spark Ignition IEC 60079-11:2011 Clause 10.1 was satisfactory, even though later it was mutually decided not to include IEC 60079-11 in the scope extension recommendation.

## Participation in IECEx Proficiency Testing Programs

Program: PTB Ex PT Scheme:

|  |  |  |
| --- | --- | --- |
| Year(s) of participation | IECEx Proficiency Testing program | General information about results |
| 2017 | Explosion Pressure test | Satisfactory |
| 2019: | Battery testing,  | Satisfactory |
| 2019 | Tests for Enclosures | Satisfactory |
| 2021: | Flameproof measurements | Participation under progress |
| 2021 | Small component thermal ignition test | Participation under progress |

## Comments (including issues found during assessment)

Several issues were identified, discussed, and subsequently resolved satisfactorily. Additionally, the capability of SQI\_ZM to prepare IECEx reports for all the types of protection that they have requested in their extension of scope was checked and found satisfactory. Items raised and closed during the assessment included the following:

* Investigation was conducted by SQI\_ZM into the extensive time required for purging the Ex p enclosure. It revealed a damaged door seal, and its subsequent repair allowed the test to be completed satisfactorily
* Updated procedures for the oxygen analyser to require initialising oxygen zero and span calibration at the start of the day and during testing when required
* Spark testing procedure was improved to maintain the power supply source at the maximum spark current limit and using only series infallible resistors for the spark testing.
* Assessment of intrinsic safety segregation distances was postponed presently as it was decided to defer the scope extension for intrinsic safety to another assessment.
* Dielectric test report was revised to add further details of the test voltage calculations.
* The Ignition Hazard Assessments for the non-electrical equipment was improved to add further hazards and their resolution.

**ATF for IECEx Certified Equipment Scheme**

This assessment report is for ExTL only.

# ExCB for Certified Service Facilities Scheme

This assessment report is for ExTL only.

# IECEx Conformity Mark Licensing Scheme

This assessment report is for ExTL only.

# ExCB for IECEx Personnel Competence Scheme

This assessment report is for ExTL only.

#  Annexes

1. Scope for IECEx Certified Equipment Scheme
	1. Current standards

| Number  | Title  | Comments |
| --- | --- | --- |
| IEC 60079-0 Edition 7.0 | Explosive atmospheres - Part 0: Equipment - General requirements  | Already in scope |
| IEC 60079-1Edition 7.0 | Explosive atmospheres - Part 1: Equipment protection by flameproofenclosures “d” | Already in scope |
| IEC 60079-2 Edition 6.0 | Explosive atmospheres - Part 2: Equipment protection by pressurizedenclosure “p’ | Applied for scope extension |
| IEC 60079-5Edition 4.0 | Explosive atmospheres - Part 5: Equipment protection by powder filling “q” | Applied for scope extension |
| IEC 60079-7Edition 5.1 | Explosive atmospheres - Part 7: Equipment protection by increasedsafety "e" | Already in scope |
| IEC 60079-13Edition 2.0 | Explosive atmospheres - Part 13: Equipment protection by pressurized room "p" and artificially ventilated room "v" | Applied for scope extension |
| IEC 60079-15Edition 5.0 | Explosive atmospheres – Part 15: Equipment protection by type of protection "n" | Already in scope |
| IEC 60079-18Edition 4.1 | Explosive atmospheres – Part 18: Equipment protection by encapsulation “m” | Already in scope |
| IEC 60079-25Edition 3.0 | Explosive atmospheres – Part 25: Intrinsically safe electrical systems | Applied for scope extension |
| IEC 60079-28Edition 2.0 | Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation  | Already in scope |
| IEC 60079-31Edition 2.0 | Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t" | Already in scope |
| IS0 80079-36Edition 1.0 | Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres – Basic method and requirements | Applied for scope extension |
| ISO 80079-37Edition 1.0 | Explosive atmospheres - Part 37: Non-electrical equipment for explosive atmospheres – Non electrical type of protection constructional safety ”c” control of ignition source ”b”, liquid immersion ”k” | Applied for scope extension |

1. Overall Organisation Chart



1. Organisation Chart of ExTL



1. Accreditation Certificate for ISO/IEC 17065

Not applicable

1. Accreditation Certificate for ISO/IEC 17025



1. Accreditation Certificate for ISO/IEC 17024

Not applicable