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

**Title:** **Re-assessment Report for the continued acceptance** **of Eurofins E&E CML Limited (CML) an Accepted Certification Body and an Accepted Test Laboratory, within the IECEx Equipment Scheme 02.**

**Circulation to: Members of the IECEx Management Committee, ExMC**

**INTRODUCTION**

In accordance with the 5 Year re-assessment plan for the surveillance and monitoring of bodies within the IECEx System, the following document contains the Re-assessment Report for the continued acceptance of Eurofins E&E CML Limited (CML) an Accepted Certification Body and an Accepted Test Laboratory, within the IECEx Equipment Scheme 02

This report is hereby submitted for endorsement during the 2025 Kyoto ExMC Meeting.

**Chris Agius**

|  |  |
| --- | --- |
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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 ExCB/ExTL/ATF assessment report for

Eurofins E&E CML Limited (CML)

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

CONTENTS

[1 Assessment information 6](#_Toc184644317)

[1.1 Type of body covered by this assessment: 6](#_Toc184644318)

[1.2 Type of assessment: 6](#_Toc184644319)

[1.3 Details of body 6](#_Toc184644320)

[1.3.1 Country 6](#_Toc184644321)

[1.3.2 Name of body 6](#_Toc184644322)

[1.3.3 Name and title of nominated principal contact 6](#_Toc184644323)

[1.4 Assessment information 6](#_Toc184644324)

[1.4.1 Members of the assessment team 6](#_Toc184644325)

[1.4.2 Place(s) of assessment 6](#_Toc184644326)

[1.4.3 Assessment date(s) 7](#_Toc184644327)

[1.5 Application information and background information on the assessment 7](#_Toc184644328)

[1.6 Scopes 7](#_Toc184644329)

[1.6.1 ExCB scope for equipment certification scheme 7](#_Toc184644330)

[1.6.2 ExTL scope 7](#_Toc184644331)

[1.6.3 ATF Scope 7](#_Toc184644332)

[1.6.4 ExCB scope for Service Facilities Scheme 7](#_Toc184644333)

[1.7 ExCB scope for Conformity Mark Licensing Scheme 7](#_Toc184644334)

[1.8 ExCB scope for IECEx Personnel Competence Scheme 7](#_Toc184644335)

[2 Common information 8](#_Toc184644336)

[2.1 Legal entity of body 8](#_Toc184644337)

[2.2 Financial support 8](#_Toc184644338)

[2.3 History 8](#_Toc184644339)

[2.4 Documentation 8](#_Toc184644340)

[2.4.1 Quality manual 8](#_Toc184644341)

[2.4.2 Procedures 8](#_Toc184644342)

[2.4.3 Work instructions 8](#_Toc184644343)

[2.4.4 Records (including test records where relevant) 9](#_Toc184644344)

[2.4.5 Document change control 9](#_Toc184644345)

[2.5 Confidentiality 9](#_Toc184644346)

[2.6 Communication with public and customers (Hard copy and Electronic) 9](#_Toc184644347)

[2.7 Recognitions and agreements 9](#_Toc184644348)

[2.8 Internal audit 9](#_Toc184644349)

[2.9 Management review 9](#_Toc184644350)

[2.10 Contracting, subcontracting and witness testing 10](#_Toc184644351)

[2.10.1 Contracting 10](#_Toc184644352)

[2.10.2 Subcontracting 10](#_Toc184644353)

[2.10.3 Off-site and Witness testing 14](#_Toc184644354)

[2.11 Training and competence 14](#_Toc184644355)

[2.12 Complaints and appeals (including appeals to IECEx) 15](#_Toc184644356)

[2.13 Impartiality 15](#_Toc184644357)

[2.14 Active involvement in development of Decision Sheets 15](#_Toc184644358)

[2.15 Special facts to be noted 15](#_Toc184644359)

[2.16 Supporting documentation 15](#_Toc184644360)

[2.17 Recommendations 15](#_Toc184644361)

[3 ExCB for IECEx Certified Equipment Scheme 16](#_Toc184644362)

[3.1 Assessment references 16](#_Toc184644363)

[3.1.1 General references 16](#_Toc184644364)

[3.1.2 Additional references applied for this assessment 16](#_Toc184644365)

[3.2 ExCB persons interviewed 16](#_Toc184644366)

[3.3 Associated ExTL(s) 16](#_Toc184644367)

[3.4 Associated certification functions 17](#_Toc184644368)

[3.5 National marks and certificates 17](#_Toc184644369)

[3.6 Standards accepted 17](#_Toc184644370)

[3.7 National differences to IEC standards 17](#_Toc184644371)

[3.8 Organisation 17](#_Toc184644372)

[3.8.1 Names, titles, and experience of the senior executives 17](#_Toc184644373)

[3.8.2 Name, title and experience of the quality management representative 17](#_Toc184644374)

[3.8.3 Name and title of signatories for certification 18](#_Toc184644375)

[3.8.4 Other employees in ExCB activity 18](#_Toc184644376)

[3.9 Organizational structure 18](#_Toc184644377)

[3.10 Indemnity insurance 18](#_Toc184644378)

[3.11 Resources 18](#_Toc184644379)

[3.12 Committees (such as governing or advisory boards) 18](#_Toc184644380)

[3.13 Certification operations 18](#_Toc184644381)

[3.13.1 National approval/certification methods 18](#_Toc184644382)

[3.13.2 Certification policy 19](#_Toc184644383)

[3.13.3 Application for certification 19](#_Toc184644384)

[3.13.4 Certification decision 19](#_Toc184644385)

[3.13.5 Suspension and cancellation of certificates 19](#_Toc184644386)

[3.14 Certificates issued 19](#_Toc184644387)

[3.15 National accreditation 19](#_Toc184644388)

[3.16 Assessment of manufacturers and issue of QARs 20](#_Toc184644389)

[3.17 Comments (including issues found during assessment) 20](#_Toc184644390)

[4 ExTL for IECEx Certified Equipment Scheme 21](#_Toc184644391)

[4.1 Assessment references 21](#_Toc184644392)

[4.1.1 General references 21](#_Toc184644393)

[4.1.2 Additional references applied for this assessment 21](#_Toc184644394)

[4.2 ExTL persons interviewed 21](#_Toc184644395)

[4.3 Associated ExCB(s) 21](#_Toc184644396)

[4.4 Organisation 21](#_Toc184644397)

[4.4.1 Names, titles, and experience of the senior executives 21](#_Toc184644398)

[4.4.2 Name, title and experience of the quality management representative 21](#_Toc184644399)

[4.4.3 Other employees in ExTL activity 21](#_Toc184644400)

[All other ExTL staff are described in the TCD. 21](#_Toc184644401)

[4.5 Organizational structure 21](#_Toc184644402)

[4.6 Resources 22](#_Toc184644403)

[4.7 Test reports issued 22](#_Toc184644404)

[4.8 National accreditation 22](#_Toc184644405)

[4.9 Calibration 22](#_Toc184644406)

[4.10 Tests witnessed during the assessment visit 22](#_Toc184644407)

[4.11 Participation in IECEx Proficiency Testing Programs 23](#_Toc184644408)

[4.12 Comments (including issues found during assessment) 23](#_Toc184644409)

[5 IECEx Conformity Mark Licensing Scheme 24](#_Toc184644410)

[5.1 Assessment references 24](#_Toc184644411)

[5.2 Comments (including issues found during assessment) 24](#_Toc184644412)

[6 Annexes 25](#_Toc184644413)

[Annex A Scope for IECEx Certified Equipment Scheme 26](#_Toc184644414)

[A.1 Current standards 26](#_Toc184644415)

[A.2 Superseded standards 28](#_Toc184644416)

[Annex B Overall Organisation Chart/ExCB/ExTL 30](#_Toc184644417)

[Annex C Accreditation Certificate for ISO/IEC 17065 31](#_Toc184644418)

[Annex D Accreditation Certificate for ISO/IEC 17025 32](#_Toc184644419)

# Assessment information

## Type of body covered by this assessment:

|  |  |
| --- | --- |
| ExCB for IECEx Certified Equipment Scheme |  |
| ExTL for IECEx Certified Equipment Scheme |  |
| 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 |  |

## Type of assessment:

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

## Details of body

### Country

UK

### Name of body

Eurofins E&E CML Limited

### Name and title of nominated principal contact

|  |  |  |
| --- | --- | --- |
| Name | Title | E-mail address |
| Stelios Roumbedakis | Certification Manager | stelios.roumbedakis@cpt.eurofinseu.com |

## Assessment information

### Members of the assessment team

|  |  |
| --- | --- |
| Name | Role |
| Katy Holdredge | IECEx Lead Assessor |
| Klauspeter Graffi | IECEx Assessor |

### 

### Place(s) of assessment

|  |
| --- |
| Newport Business Park  New Port Road  Ellesmere Port, Cheshire CH65 4LZ |

### Assessment date(s)

2024-04-22 to 2024-04-24

## Application information and background information on the assessment

The secretariat review process requested that the assessment team conduct a review of Eurofins E&E CML Limited’s ability to access the OCS back office to review CoCs linked to out of date QARs as well as the management of their out of date QARs. See 3.16 of this report for more details.

## Scopes

### ExCB scope for equipment certification scheme

Eurofins E&E CML Limited (CML) has a flexible scope of accreditation through UKAS for ISO/IEC 17065 that allows them to add new versions, or technically equivalent versions, of existing accredited standard test methods to be introduced in accordance with Eurofins E&E CML Limited’s documented in house procedure.

There is a form, Flexible Scope of Accreditation, which is submitted to UKAS annually, to describe the list of standards added. The latest version of this document included IEC TS 60079-47, Ed. 1, IEC 60079-31, Ed. 3.0, IEC 60079-26, Ed. 4, and IEC 60079-11, Ed. 7.0. In addition, there is a form, Extension to Scope of Accreditation, Version 8.0, that is used to evaluate the addition of each individual standard. All records are stored in Eurofins E&E CML Limited’s Sharepoint website under Flexible scope. Examples of these forms were viewed for IEC 60079-11, Ed. 7.0, and IEC 60079-31, Ed. 3.0. There was an issue identified in the Extension to Scope of Accreditation for IEC 60079-11, Ed. 7.0. This was subsequently resolved and found to meet the requirements of the IECEx.

The scope for the ExCB is shown in Annex A.

### ExTL scope

There are six ExTLs associated with the ExCB, including the ExTL integral with the ExCB. The other ExTLs include KSC Co. Ltd, Republic of Korea, NEPSI, People’s Republic of China, Eurofins MET Laboratories, USA (two locations), and Eurofins Product Testing Italy Srl. The integral ExTL scope is the same as for the ExCB except testing for IEC 60079-29-1, which is covered by NEPSI, and has not been used to date.

### ATF Scope

Not applicable.

### ExCB scope for Service Facilities Scheme

Not applicable.

## ExCB scope for Conformity Mark Licensing Scheme

Full scope as shown for ExCB above.

## ExCB scope for IECEx Personnel Competence Scheme

Not applicable.

# Common information

## Legal entity of body

Eurofins E&E CML Limited (CML) (referred to as the Company) is a private limited company, registration number 8554022, listed on the www.gov.uk website.

The Company is owned by Eurofins Product Testing UK Holding Limited (100%).

## Financial support

There is no financial support, The Company is owned by Eurofins Product Testing UK Holding Limited (100%) and is self-funded from the certification and quality assessment activities.

## History

Eurofins E&E CML Limited was established as Certification Management Limited in June 2013 to provide certification services to the clients. The company obtained UKAS accreditation according to ISO/IEC 17065 and ISO/IEC 17025 (No 8175) and was appointed in 2014 as an IECEx Certification Body (ExCB) and Test Laboratory (ExTL) with the scope of standards included in Annex A of this form.

Eurofins E&E CML Limited produces test reports and CML BV issues EU-Type Examination Certificates in every type of protection which are valid throughout Europe. This includes issuing Quality Assurance Notifications against the requirements of EN ISO/IEC 80079-34.

A subsidiary company, CML B.V. (Chamber of Commerce No. 67386717) is accredited by RvA No C640 and operates as an EU Notified Body, No 2776.

Since January 2019 Eurofins E&E CML Limited has been owned by Eurofins Product Testing UK Holding Limited.

## Documentation

### Quality manual

Eurofins E&E CML Limited has a high level Quality Manual, Rev. 34.0, that is shared with CML B.V. and meets the requirements of the IECEx.

### Procedures

The ExHaz Manual, Rev. 22.0, contains Eurofins E&E CML Limited’s procedures for evaluation and testing for Ex. The separation between the evaluation and certification decision is in Step 15 of Clause 4, Evaluation and Certification Process, which is in accordance with the requirements of ISO/IEC 17065 and the IECEx.

Eurofins E&E CML Limited has a Lab Manual, Rev. 18.0, which covers laboratory testing and ISO/IEC 17025.

The Surveillance Manual, Rev. 7.1, contains the procedures for conducting quality audit surveillance of manufacturing facilities.

### Work instructions

Eurofins E&E CML Limited (CML) has an Ex s procedure, Rev. 3.0, which is in compliance with the requirements of IECEx OD 233, IECEx Certified Equipment Scheme - Assessment of Ex “s" Equipment. In addition, they have an Ex s contract review form, version 1.0.

The procedure for Offsite testing and Witness testing is in compliance with the requirements of IECEx OD 024, IECEx Rules of Procedure covering testing, or witness testing at a manufacturers’ or user’s facility. Eurofins E&E CML Limited (CML) also has a Witness Test Site Audit form, which includes their assessment of the facility as well as the agreement.

CML also has lab procedures for some testing with an ‘LP’ document number.

### Records (including test records where relevant)

Records are stored on the company document storage system in electronic format. Clause 11.6 of the Quality Manual defines records that are retained 10 years after cancellation of certification. There was an issue identified with the list of records retained. This was subsequently resolved and found to meet the requirements of the IECEx.

### Document change control

Document change is handled in the document storage system ‘Quality Documents’ library, with documents checked out before they can be modified. The issue level, approval and change record is recorded in Sharepoint. This is described in section 14.2 and Appendix D of the Quality Manual and complies with the requirements of the IECEx.

## Confidentiality

Confidentiality is covered in the Quality Manual, section 11.4. Staff contracts have “Statement of compliance” covering confidentiality and impartiality and these are signed by the employee. A copy of contract of employment, which contains confidentiality information, was viewed and is in compliance with the IECEx requirements.

Contract staff sign a Contract Agent Agreement, Version 2, which includes a confidentiality statement. Example copies were viewed and in compliance with the IECEx requirements.

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

Eurofins E&E CML Limited has a website [www.cmlex.com](http://www.cmlex.com) and LinkedIn site.

## Recognitions and agreements

Agreements are in place with a number of IECEx and National bodies including CCTEG SHC, CMExC, Eurofins, JExM, KSC, MA Centre, NEPSI, and PCEC.

Eurofins E&E CML Limited (CML) is recognised by US Coast Guard and MA Centre (mining approvals) for Group I China. Eurofins E&E CML Limited (CML) is a recognised certification body for Japanese approvals by the Japanese Ministry of Health Labour and Welfare.

## Internal audit

Internal audits are carried out in accordance with the Quality Manual, Version 34.0, section 15, and the audit schedule which is maintained on the company Enterprise Resource Planning (ERP) system. The results of internal audits are tracked in the Harmony PSA system.

There are five vertical audits for IECEx scheduled for 2024, two have been completed to date.

One horizontal audit for ISO/IEC 17065 and ISO/IEC 17025, plus twelve technical testing audits for ISO/IEC 17025 audits are scheduled for 2024. The last ISO/IEC 17065 audit was conducted on 2023-11-29 and the last ISO/IEC 17025 audit was conducted on 2023-12-11 and found in compliance with the IECEx requirements.

## Management review

Management reviews are held at a minimum annually, usually twice per year, and cover the agenda detailed in the Quality Manual, section 9, which has a standardized form, Management Review Meeting Agenda.

The last management review was conducted on 2024-01-31 and was attended by the Managing Director and Quality Manager. Input from the Certification and Laboratory Managers was either received directly or from the Harmony system. The next management review is scheduled for 2024-07. Records are saved in Sharepoint, Quality Library, Management Review and is in compliance with the requirements of the IECEx.

## Contracting, subcontracting and witness testing

### Contracting

The contract agent agreement template is signed by each person/auditor involved in the delivery, testing and auditing on behalf of Eurofins CML as described in Clause 2.5. There is also one former retired employee that can make the certification decision. These are registered as contract agents in the Sharepoint system. The outsourcing policy is described in the Quality Manual, section 11.7 and complies with the requirements of the IECEx.

### Subcontracting

Eurofins CML has requirements for outsourcing in Clause 11.7 of their Quality Manual and their Ex assessment procedure, Rev. 2, which describes the use of Accepted organizations. The accepted organizations are all facilities of accepted ExTLs within IECEx system except for three facilities. These three facilities are all ISO/IEC 17025 accredited by UKAS and are only performing tests that do not have minimum test equipment as defined by the TCD or for tests where Eurofins CML also has the test equipment in house. A copy of the signed agreement for Eurofins Met in Baltimore, MD, USA dated June 2020 and valid indefinitely, was viewed during the reassessment and meets the requirements of the IECEx.

The following tests are, or may be, subcontracted by the body to accepted ExTLs:

| Standard | Clause | Test |
| --- | --- | --- |
| IEC 60079-0 Ed 6/7 | 25 | Compliance of prototype or sample with documents |
| 26.4.2 | Resistance to impact |
| 26.4.3 | Drop test |
| 26.4.5 | Degree of protection (IP) by enclosures |
| 26.5.1.2 | Service temperature |
| 26.5.1.3 | Maximum surface temperature |
| 26.6 | Torque test for bushings |
| 26.8 | Thermal endurance to heat |
| 26.9 | Thermal endurance to cold |
| 26.11 | Resistance to chemical agents for Group I equipment |
| 26.13 | Surface resistance test of parts of enclosures of non-metallic materials |
| 26.14 | Measurement of capacitance |
| IEC 60079-1 Ed 6/7 | 5 | Verification and tests e.g. Measurement of flamepaths and enclosure dimensions |
| 15.2.2 | Determination of explosion pressure (reference pressure) |
| 15.2.3.2 | Overpressure test - First method (static) |
| 15.2.3.3 | Overpressure test - Second method (dynamic) |
| 15.3 | Test for non-transmission of an internal ignition |
| 15.4 | Tests of flameproof enclosures with breathing and draining devices |
| IEC 60079-2, Ed. 6 | 16.2 | Maximum overpressure test |
| 16.3 | Leakage test |
| 16.3.1 | Other than static pressurization |
| 16.3.2 | Static pressurization |
| 16.4.2 | Pressurized enclosure where the protective gas is air |
| 16.4.3 | Pressurized enclosure where the protective gas is inert |
| 16.4.4 | Pressurized enclosure where the protective gas may be either air or an inert gas with a density equal to air ±10 % |
| 16.4.5 | Filling procedure test for a pressurized enclosure protected by static  pressurization |
| 16.5.2 | Pressurized enclosure where the flammable substance has less than 2 % (V/V) oxygen and the protective gas is inert |
| 16.5.2.1 | Purging test |
| 16.5.2.2 | Dilution test |
| 16.5.3 | Pressurized enclosure with pressurization by continuous flow, containment system with less than 21 % (V/V) oxygen and the protective gas is inert |
| 16.5.3.1 | Purging test |
| 16.5.3.2 | Dilution test |
| 16.5.4 | Pressurized enclosure where the flammable substance is not a liquid, pressurization by continuous flow and the protective gas is air |
| 16.5.4.1 | Purging test |
| 16.5.4.2 | Dilution test |
| IEC 60079-5 Ed 4 | 5.1.1 | Pressure type test of container |
| 5.1.2 | Verification of the degree of protection of the enclosure |
| 5.1.3 | Dielectric strength test of the filling material |
| 5.1.4 | Maximum temperatures |
| IEC 60079-6, Ed. 4.1 | 6.1.1 | Overpressure test on sealed enclosures |
| 6.1.2 | Reduced pressure test on sealed enclosures |
| 6.1.3 | Overpressure test on unsealed enclosures |
| 6.1.4 | Maximum temperature |
| 6.1.5 | Switching Tests |
| IEC 60079-7 Ed 5.1 | 6.1 | Dielectric strength |
| 6.2.1 | Determination of starting current ratio *I*A/ *I*N and the time *t*E |
| IEC 60079-11 | 10.1 | Spark ignition test |
| 10.2 | Temperature tests |
| 10.3 | Dielectric strength tests |
| 10.4 | Determination of parameters of loosely specified components |
| 10.5 | Tests for cells and batteries |
| 10.6 | Mechanical tests |
| 10.7 | Tests for intrinsically safe apparatus containing piezoelectric devices |
| 10.8 | Type tests for diode safety barriers and safety shunts |
| 10.9 | Cable pull test |
| 10.10 | Transformer tests |
| 10.11 | Optical isolators tests |
| IEC 60079-13, Ed. 2 | 6.4.3 | Overpressure test |
| 6.4.4 | Purging test |
| 6.4.5 | Minimum pressure differential test |
| 6.4.6 | Confirmation of the ratings of the safety devices |
| 6.4.7 | Verification of sequence of operation of the safety devices |
| 7.2.2 | Sequence of operations of the purging safety devices |
| 7.3 | Minimum safety provisions, safety devices and electrical disconnects |
| 7.3.1 | Safety devices |
| 7.3.2 | Safety devices based upon equipment protection level |
| 7.3.3 | Artificial ventilation protection |
| 7.3.4 | Gas detectors |
| 7.4 | Loss of artificial ventilation |
| IEC 60079-15, Ed. 4 | 6.5.1 | Insulation from earth or frame |
| 6.5.2 | Insulation between conductive parts |
| 8.9 | Stator winding insulation system |
| 8.10.2.2 | Type test for a specific converter |
| 12.6.1 | Insulation resistance |
| 12.6.2 | Mechanical shock test |
| 22.3.1 | Thermal endurance tests |
| 22.3.1.1 | Thermal endurance to heat |
| 22.3.1.2 | Drop test for hand-held equipment |
| 22.4.1 | Preparation of enclosed-break device samples |
| 22.4.2 | Preparation of non-incendive component samples |
| 22.4.3 | Test conditions for enclosed-break devices and non-incendive components |
| 22.4.3.1 | General |
| 22.4.3.2 | Enclosed-break devices |
| 22.4.3.3 | Non-incendive components |
| 22.5.1 | Conditioning |
| 22.5.2 | Voltage test |
| 22.5.3 | Tests on devices with free space |
| 22.5.3.1 | Equipment for leakage test on sealed devices |
| 22.5.3.2 | Leakage test on sealed devices |
| 22.5.3.3 | Dielectric withstand test |
| 22.5.4 | Test for sealed devices for luminaires |
| 22.6.1 | General |
| 22.6.2 | Test procedures |
| 22.6.2.1 | Equipment where the nominal volume of the enclosure will be unchanged due to pressure |
| 22.6.2.2 | Equipment with test port |
| 22.6.2.2.1 | Type test only without additional routine test |
| 22.6.2.2.2 | Type test with additional routine test |
| 22.6.2.3 | Type test for equipment without test port |
| 22.6.3 | Alternative type test for equipment where the nominal volume of the enclosure changes due to pressure |
| 22.7 | Test for screw lampholders |
| 22.10 | Test for wiring of luminaires subject to high-voltage impulses from ignitors |
| 22.11.1 | General |
| 22.11.2 | Test procedure |
| 22.11.3 | Evaluation criteria |
| 22.12.1 | Test conditions |
| 22.12.2 | Evaluation criteria |
| 22.13.1 | Test for cage rotor construction |
| 22.13.1.1 | General |
| 22.13.1.2 | Rotor cage ageing process |
| 22.13.1.3 | Ignition test |
| 22.13.2 | Test for stator winding insulation system incendivity |
| 22.13.2.1 | General |
| 22.13.2.2 | Test conditions |
| 22.13.2.3 | Steady state ignition test |
| IEC 60079-18 ed 4 | 8.1.1 | Water absorption test |
| 8.1.2 | Dielectric strength test |
| 8.2.2 | Maximum temperature |
| 8.2.3.1 | Thermal endurance to heat |
| 8.2.3.2 | Thermal endurance to cold |
| 8.2.4 | Dielectric strength test |
| 8.2.5 | Cable pull test |
| 8.2.6 | Pressure test for Group I and Group II electrical equipment |
| 8.2.7 | Test for resettable thermal protective device |
| 8.2.8 | Sealing test for built-in protective devices |
| IEC 60079-26, Ed. 4 | 7.1 | Standardized types of protection |
| 7.2 | Separation elements |
| 7.3 | Temperature evaluation |
| IEC 60079-28 Ed 2 | 5.2.2.2 | Optical power |
| 5.2.2.3 | Optical irradiance |
| 5.2.3 | Pulsed radiation |
| 5.2.3.1 | General |
| 5.2.3.2 | Optical pulse duration of less than or equal to 1 s for Group II |
| 5.2.3.3 | Optical pulse duration greater than 1 s for Group II |
| 5.2.3.4 | Additional requirements for optical pulse trains for Group II equipment |
| 5.2.3.5 | Additional requirements for optical pulses for Group I and Group III equipment |
| 5.2.4 | Ignition tests |
| 5.2.5 | Over-power/energy fault protection |
| 5.2.5.1 | General |
| 5.2.5.2 | Self-limiting optical sources |
| 5.2.5.3 | Optical sources requiring power limiting circuitry |
| IEC/IEEE 60079-30-1 Ed 1.0 | 5.1.1 | General |
| 5.1.2 | Dielectric test |
| 5.1.3 | Electrical insulation resistance test |
| 5.1.4 | Flammability test |
| 5.1.5 | Impact test |
| 5.1.6 | Deformation test |
| 5.1.7 | Cold bend test |
| 5.1.8 | Water resistance test |
| 5.1.9 | Integral components water resistance test |
| 5.1.10 | Verification of rated output |
| 5.1.11 | Thermal stability |
| 5.1.12 | Thermal performance |
| 5.1.13 | Max sheath temperature |
| 5.1.14 | Verification of startup current |
| 5.1.15 | Verification of the electrical resistance of the electrical conductive covering |
| 5.1.16 | Outdoor exposure test |
| IEC 60079-31 Ed 2 | 6.1.1 | Type tests for dust exclusion by enclosures |
| 6.1.1.2 | Impact test for supplementary enclosures |
| 6.1.1.3 | Pressure test |
| 6.1.1.4 | IP test |
| 6.1.2 | Thermal tests |

The following tests are, or may be, subcontracted by the body to other facilities:

| Standard | Clause | Test |
| --- | --- | --- |
| IEC 60079-0 | 26.10.3 | Charpy impact testing for plastic samples exposed to UV |
| IEC60079-0 | 26.11 | Resistance to chemical agents for Group I equipment |
| IEC 60079-7 | 6.3.6 | Vibration test for level of protection "eb" for luminaires with bi-pin lamps |
| IEC 60079-7 | 6.6.3 | Mechanical shock test |

More details, including bodies to whom tests will be subcontracted, details of accreditation of those bodies and details of how the subcontracted bodies are checked, are included in the site assessment report. Despite subcontracting of tests, the assessment team confirmed that Eurofins E&E CML Limited have the testing capability according to the listed tests specified in the IECEx Technical Capability Document.

### Off-site and Witness testing

Ex Haz manual in section 7.2 references the use of the Witness/Off Site Testing Site Assesment Checklist & Agreement. There was an issue identified with missing agreement, site assessment and registration on the IECEx website. This was subsequently resolved and found to meet the requirements of the IECEx. OD 024

## Training and competence

Staff competence and training is described in the Quality Manual section 11.5 and includes the process for establishing and monitoring competence. Requirements are listed in the Sharepoint system and records of competent staff are also maintained there.

Details of staff competencies are included in the site assessment report. Training records were viewed for ExTL, ExCB and QA staff and were in compliance with the IECEx requirements.

## Complaints and appeals (including appeals to IECEx)

The process for handling complaints and appeals is detailed in the Quality Manual section 13. Evidence that Eurofins CML maintain records on the company Harmony system and is in compliance with the requirements of the IECEx.

## Impartiality

The company policy on impartiality is described in section 11 of the Quality manual and is in compliance with the requirements of the IECEx as well as ISO/IEC 17065 and ISO/IEC 17025.

## Active involvement in development of Decision Sheets

Quality Manual section 11.9 describes the company policy on participation in IECEx ExTAG. Commenting on ExTAG DS is covered under Clause 13 of the ExHaz manual. It was discovered during the reassessment that only one individual from Eurofins CML was receiving the draft ExTAG DS for comments and they requested additional staff be added to the IECEx Secretariat’s distribution list.

## Special facts to be noted

None other than those listed

## 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 or 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; and
* Information on contracting/subcontracting.

## Recommendations

Based on the assessment performed on 2024-04-22 to 2024-04-24, Eurofins E&E CML Limited is recommended for (continued acceptance in the IECEx scheme as:

* An ExCB in the IECEx Certified Equipment Scheme
* An ExTL in the IECEx Certified Equipment Scheme
* An ExCB in the IECEx Conformity Mark Licensing Scheme

This is according to the scope of the standards listed in this document, subject to resolution of the issues found during the assessment.

|  |  |
| --- | --- |
| Katy A. Holdredge | Klauspeter Graffi |
| IECEx Lead Assessor | IECEx Assessor |

Date: 2024-12-09

# ExCB for IECEx Certified Equipment Scheme

## Assessment references

### General references

1. IECEx 02 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. ISO/IEC 80079-34 Explosive atmospheres – Part 34: Application of quality systems for equipment manufacture
4. IECEx OD 009 Issuing of CoCs, ExTRs and QARs
5. IECEx OD 025 Guidelines on the Management of Assessment and Surveillance programs for the assessment of Manufacturer’s Quality Systems in accordance with the IECEx Scheme
6. IECEx OD 026 IECEx Certified Equipment Scheme – Guidelines for the qualification of Lead Auditor and Auditors, in accordance with the IECEx System
7. ISO/IEC 17065 General requirements for bodies operating product certification systems Conformity assessment — Requirements for bodies certifying products, processes and services
8. IECEx OD 107 Harmonised check list for certification bodies ISO/IEC 17065
9. IECEx OD 060 IECEx Guide for Business Continuity – Management of Extraordinary Circumstances or Events Affecting IECEx Certification Schemes and Activities
10. IECEx Technical Capability Document (TCD)
11. ExTAG decision sheets (DSs)

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

### Additional references applied for this assessment

1. OD233 IECEx Certified Equipment Scheme - Assessment of Ex “s" Equipment
2. OD280 IECEx Certified Equipment Scheme – Guide to Certification of Non-electrical Equipment and Protective Systems

## ExCB persons interviewed

|  |  |
| --- | --- |
| Name | Position |
| Andy Smith | Managing Director |
| Stylianos Roumbedakis | Technical Manager |
| David Stubbings | Technical and business consultation |
| Afsaneh Jafari | Quality Manager |
| Ann Scott | Certification Coordinator/QA Operation manager |

## Associated ExTL(s)

Eurofins E&E CML Limited has the following ExTLs:

* Eurofins E&E CML Limited (CML) - United Kingdom;
* Eurofins MET Laboratories Baltimore MD – USA;
* Eurofins MET Laboratories Austin, TX – USA;
* Eurofins Product Testing Italy Srl.(EUT) - Italy;
* Korea Safety Certification (KSC); and
* NEPSI.

## Associated certification functions

CML BV is an ATEX Notified Body.

## National marks and certificates

Eurofins E&E CML Limited is accredited by UKAS to issue product certificates in the United Kingdom and recognised by the Japanese government to issue certificates for Japan. CML BV is an EU Notified Body for ATEX.

## Standards accepted

See Annex Aof this report.

## National differences to IEC standards

In noting that some of the National Differences are listed on the IECEx On-Line Bulletin, the assessment team have raised a concern over the on-going maintenance of these at the GB National level and have referred this matter to the IECEx Secretariat for follow up action. On this basis the item, is closed from the assessment point of view.

## Organisation

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

|  |  |  |
| --- | --- | --- |
| Name | Title | Experience (years) |
| Andy Smith | Managing Director/ quality certification manager | 16 years’ experience in certification  17 years’ experience in Ex industry |
| David Stubbings | Technical and business consultant | 20 years’ experience as Certification Manager ATEX and IECEx accredited certification schemes, former Director of Sira Certification Service.  Senior Engineer at Sira for 5 years carrying out assessment and testing against all protection methods.  Certification Officer at BASEEFA for 3 years.  GEC Alsthom as a motor designer and certification of for Ex products, 6 years |
| Andrew Holmes | Technical Director | 13 years in ExCB and 4 years offshore system oil/gas |

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

| Name | Title | Experience (years) |
| --- | --- | --- |
| Afsaneh Jafari | Quality Manager | 19 Years experience in quality system as quality manager, QMS and Ex Internal and Third-party auditor  5 years in Ex Manufacturer as quality manager (QA&QC)  3.5 years at Baseefa as internal and Ex auditor (QAN &QAR) and maintain quality system against 17065 and 17025 standards.  5.5 years at CML as deputy and quality manager, QMS and Ex auditor, Maintain various quality management system against 17065,17021,17025, UKCA, ATEX and IECEx schemes.  Reviewer and certification decision maker of Ex quality system (QAR, ATEXQAN and UKQAN) and QMS  5 years as senior QA engineer at Automotive Industry |

### Name and title of signatories for certification

|  |  |  |
| --- | --- | --- |
| Name | Title | Comments |
| David Stubbings | Technical and business consultation | None |
| Lois Brisk | Deputy Certification Manager | None |
| Harriet Cleave | Senior Certification Engineer | None |
| Adam Snowdon | Certification Manager | Not for QAR |
| Ben Trafford | Certification Engineer | None |
| Helen Amos | Technical Specialist | None |
| Andy Smith | Managing Director/ certification manager (management system | None |
| Afsaneh Jafari | Quality Manager | Ex quality only |
| Stelios Roumbedakis | Technical Manager | None |

### Other employees in ExCB activity

|  |  |  |
| --- | --- | --- |
| Name | Title | Experience in Ex (years) |
| Ann Scott | Certification Coordinator/QA Operation manager | 17 years |

## Organizational structure

See Annex B.

## Indemnity insurance

Certificate of Insurance (Dated 31/12/2024), which issued by Marsh, Insurance Brokers, and scope of coverage include test and certification activity.

## Resources

Eurofins E&E CML Limited has sufficient competent staff, quality documentation and facilities in place for their certification body.

## Committees (such as governing or advisory boards)

Eurofins E&E CML Limited has an impartiality committee with membership defined in section 10.1 of quality manual. Last meeting was on June 6, 2023, with no items of particular note for IECEx. It was found to meet the requirements of the IECEx.

## Certification operations

### National approval/certification methods

UKAS accredited for ISO/IEC 17065:2012, Requirement for bodies certifying product, processes, and services.

### Certification policy

Eurofins E&E CML Limited’s certification policy for IECEx is covered under the Ex Haz Manual.

### Application for certification

Process included in Ex Haz Manual, section 4, and found to meet the requirements of the IECEx.

### Certification decision

Process included in Ex Haz Manual, section 4, and found to meet the requirements of the IECEx.

### Suspension and cancellation of certificates

Process included in Quality Manual section 12.8. There was an issue related to suspensions. This was subsequently resolved and found to meet the requirements of the IECEx.

## Certificates issued

Number of certificates issued under for the preceding two years for each type of protection. For new applications these should be for national or regional schemes and for currently accepted bodies IECEx certificates should be shown (certificates for other schemes may also be shown):

|  |  |  |  |
| --- | --- | --- | --- |
| Standard numbers | Type of protection or other identifying information | Number of issued certificates (for last 2 years) | Total |
| 2022 - 2024 |
| 60079-1 | Flameproof | 508 | 508 |
| 60079-2 | Pressurised | 86 | 86 |
| 60079-5 | Powder filled | 12 | 12 |
| 60079-6 | Liquid filled | 5 | 5 |
| 60079-7 | Increased safety | 273 | 273 |
| 60079-11 | Intrinsically safe | 232 | 232 |
| 60079-13 | Pressurised room | 0 | 0 |
| 60079-15 | Type n | 43 | 43 |
| 60079-18 | Encapsulated | 77 | 77 |
| 60079-26 | Ga | 15 | 15 |
| 60079-28 | Optical radiation | 42 | 42 |
| 60079-29-1 | Gas detectors | 0 | 0 |
| 60079-30-1 | Trace heating | 0 | 0 |
| 60079-31 | Dust protected | 191 | 191 |
| 60079-33 | Special protection | 4 | 4 |
| 80079-36 | Non-electrical | 32 | 32 |
| 80079-37 | Non-electrical | 14 | 14 |
| 60079-39 | Spark duration limited | 0 | 0 |

NOTE Above include certificates to IEC 60079-0 unless otherwise shown.

## National accreditation

The national accreditation certification for ISO/IEC 17065 is shown in Annex C. UKAS witnessed the assessment of Utonomy Ltd., assessment was completed 2024-03-12 to -13. There were no issues identified by UKAS as part of the witnessed assessment.

## Assessment of manufacturers and issue of QARs

This process is covered by the Surveillance Manual. The out of date QARs report on the IECEx website was reviewed during the assessment and at the time there were nine on the list. During the reassessment, it was found that there was no procedure for recording remote assessments as required by IECEx OD 060. This was subsequently resolved and found to meet the requirements of the IECEx.

## Comments (including issues found during assessment)

Eurofins E&E CML Limited has the necessary staff, competency, and resources for their scope. There were some issues related to the following topics:

* Suspensions;
* Documentation for Flexible Scope of Accreditation;
* IECEx OD 024 compliance;
* Ignition hazard assessments;
* Acceptance of testing;
* Agreements; and
* Insufficient manuals/policies/procedures/work instructions for
* Competency records in accordance with IECEx OD 207;
* Recording remote assessments performed in accordance with IECEx OD 060; and
* Assessments related to trade agent certificates in accordance with IECEx OD 203.

All issues were revised to the satisfaction of the audit team and now meet the requirements of the IECEx.

# 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

1. OD233 IECEx Certified Equipment Scheme - Assessment of Ex “s" Equipment
2. OD280 IECEx Certified Equipment Scheme – Guide to Certification of Non-electrical Equipment and Protective Systems

## ExTL persons interviewed

|  |  |
| --- | --- |
| Name | Position |
| Mark Powers | Lab Manager |
| Graham Powers | Principal Laboratory Engineer |
| Liam Jones | Senior Laboratory Engineer |
| Tom Nelson | Trainee Laboratory Engineer |
| David Stubbings | Technical and business consultation |
| David Benstead | Technical Manager (Intrinsically safe) |

## Associated ExCB(s)

Eurofins E&E CML.

## Organisation

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

See 3.8.1.

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

See 3.8.2.

### Other employees in ExTL activity

### All other ExTL staff are described in the TCD.

## Organizational structure

See Annex B.

## Resources

Eurofins E&E CML Limited is equipped with all the necessary resources for operating the IECEx ExTL, including sufficient engineers, laboratory, and staff such as sales and accounts, as well as appropriate procedure, work instructions and forms.

They have an adequately sized testing facility with a range of test equipment to perform the tests required.

## Test reports issued

See 3.14.

## National accreditation

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

NOTE The national accreditation is checked annually by the IECEx Secretariat.

## Calibration

The calibration is addressed in the laboratory manual rev.18 clause 7.2 “Calibrations”. CML outsources all calibration involving IECEx to ISO/IEC17025 and UKAS accredited calibration laboratories.

As a part of quality system, there is a calibration plan annually established and implemented for all the relevant measuring instrument/equipment. Examples of calibration certificates were reviewed and verified against specific instrument/equipment and found to be satisfactory.

## Tests witnessed during the assessment visit

The following tests were witnessed during the assessment visit:

| Standard and edition | Clause number | Test | Comments |
| --- | --- | --- | --- |
| IEC 60079-0, Edition 7.0 | 26.13 | Surface resistance test of part of enclosure of non-metallic enclosure | Acceptable |
| IEC 60079-0, Edition 7.0 | 26.4.5 | Degree of protection (IP) by enclosures | Acceptable |
| IEC 60079-0, Edition 7.0 | 26.14 | Measurement of capacitance | Acceptable |
| IEC 60079-1, Edition 7.0 | 15.2.2 | Determination of explosion pressure (reference pressure) | Acceptable |
| IEC 60079-1, Edition 7.0 | 15.4.3 | Thermal Test of enclosure with breathing and draining devices | Acceptable |
| IEC 60079-11, Edition 6.0 | 10.1 | Spark ignition test | Acceptable |
| IEC 60079-11, Edition 6.0 | 10.5.3 | Spark ignition and surface temperature of cells and batteries | Acceptable |
| IEC 60079-15, Edition 5.0 | 11.2.3 | Leakage tests on sealed devices | Acceptable |
| IEC 60079-18, Edition 4.1 | 8.1.2 | Dielectric strength | Acceptable |
| IEC 60079-28, Edition 2.0 | 5.2.2.2 | Measurement of the optical power | Acceptable |
| IEC 60079-28, Edition 2.0 | 5.2.2.3 | Measurement of the optical irradiance | Acceptable |
| **IEC/IEEE 60079-30-1**  Edition 1.0 | 5.1.4 | Flammability test | Acceptable |
| **IEC/IEEE 60079-30-1**  Edition 1.0 | 5.1.7 | Cold bend test | Acceptable |
| **IEC/IEEE 60079-30-1**  Edition 1.0 | 5.1.8 | Water resistance test | Acceptable |
| IEC 60079-31, Edition 2.0 | 6.1.1.4 | Thermal tests | Acceptable |

## Participation in IECEx Proficiency Testing Programs

Program: PTB Ex PT Scheme

|  |  |  |
| --- | --- | --- |
| Year(s) of participation | IECEx Proficiency Testing program | General information about results |
| 2011-2012 | Program 1 "Explosion pressure" | Verified during last assessment. |
| 2011-2012 | Program 2 "Spark ignition" | Verified during last assessment. |
| 2013-2014 | Program 3 "Flame Transmission" | Verified during last assessment. |
| 2013-2014 | Program 4 "Temperature Classification" | Verified during last assessment. |
| 2015-2016 | Program 5 "Electrostatic Charge" | Verified during last assessment. |
| 2015-2016 | Program 6 "Intrinsic Safety" | Verified during last assessment. |
| 2017-2018 | Program 7 "Explosion Pressure" | Verified during last assessment. |
| 2017-2018 | Program 8 "Pressurized Enclosure" | Verified during last assessment. |
| 2019-2020 | Program 9 “Battery Testing” | There were no action or warning signals. |
| 2019-2020 | Program 10 “Tests of Enclosures” | There were no action or warning signals. |
| 2021-2022 | Program 11 “Flameproof Joints” | There were no action or warning signals. |
| 2021-2022 | Program 12” Small Component Temperature” | There were no action or warning signals. |
| 2023-2024 | Program 13 “Explosion Pressure” | As of the date of the reassessment, the results have not been uploaded. |
| 2023-2024 | Program 14 “Connection and Junction Boxes” | As of the date of the reassessment, the results have not been uploaded. |

## Comments (including issues found during assessment)

Eurofins E&E CML Limited has the necessary staff, competency, equipment, and facilities for their scope. There were some issues related to the following topics:

* Documentation for Flexible Scope of Accreditation;
* Calibration;
* Dust chamber for IP5X and 6X;
* Powder used for testing;
* Chamber for IEC 60079-31 thermal test; and
* Procedure for reference pressure test.

All issues were revised to the satisfaction of the audit team and now meet the requirements of the IECEx.

# IECEx Conformity Mark Licensing Scheme

## Assessment references

1. IECEx 04 IECEx Certified Equipment Scheme covering equipment for use in explosive atmospheres – IECEx Conformity Mark Licensing Scheme – Rules
2. IECEx OD 422 IECEx Certified Equipment Scheme covering equipment for use in explosive atmospheres – Procedures for the granting of Licenses to issue and use the IECEx Conformity Mark
3. IECEx OD 423 IECEx Certified Equipment Scheme covering equipment for use in explosive atmospheres – Terms and Conditions for use of the IECEx Conformity Mark

NOTE The latest editions of the above documents were applied.

## Comments (including issues found during assessment)

Eurofins E&E CML Limited covers the requirements for the Conformity Mark License System under Clause 13 of Surveillance Manual & IECEx Mark Application, Version 4.1. There has been no work done since 2016 under this scheme.

# Annexes

See Contents.

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 | In ISO/IEC 17065 and ISO/IEC 17025 scopes |
| IEC 60079-1  Edition 7.0 | Explosive atmospheres - Part 1: Equipment protection by flameproof  enclosures “d” | In ISO/IEC 17065 and ISO/IEC 17025 scopes |
| IEC 60079-2  Edition 6.0 | Explosive atmospheres - Part 2: Equipment protection by pressurized.  enclosure “p’ | In ISO/IEC 17065 and ISO/IEC 17025 scopes |
| IEC 60079-5  Edition 4.0 | Explosive atmospheres - Part 5: Equipment protection by powder filling “q” | In ISO/IEC 17065 and ISO/IEC 17025 scopes |
| IEC 60079-6  Edition 4.1 | Explosive atmospheres - Part 6: Equipment protection by liquid immersion “o” | Edition 4.0 in ISO/IEC 17065 and ISO/IEC 17025 scope. Ed 4.1 applied for and on UKAS flexible scope.  Form submitted to IECEx secretariat on 2024-04-22. |
| IEC 60079-7  Edition 5.1 | Explosive atmospheres - Part 7: Equipment protection by increased.  safety "e" | Edition 5.0 in ISO/IEC 17065 scope and Edition 5.1 covered by flexible scope.  Edition 5.1 in ISO/IEC 17025 scope |
| IEC 60079-11  Edition 7.0 | Explosive atmospheres - Part 11: Equipment protection by intrinsic safety “i” | Edition 7.0 in ISO/IEC 17065 and Edition 6.0 in ISO/IEC 17025 scopes  Edition 7.0 on UKAS flexible scope. |
| IEC 60079-13  Edition 2.0 | Explosive atmospheres -  Part 13: Equipment protection by pressurized room "p" and artificially ventilated room "v" | In ISO/IEC 17065 and ISO/IEC 17025 scopes |
| IEC 60079-15  Edition 5.0 | Explosive atmospheres – Part 15: Equipment protection by type of protection "n" | In ISO/IEC 17065 and ISO/IEC 17025 scopes |
| IEC 60079-18  Edition 4.1 | Explosive atmospheres – Part 18: Equipment protection by encapsulation “m” | Edition 4.0 in ISO/IEC 17065 and Edition 4.1 in ISO/IEC 17025 scopes  Ed 4.1 applied for and on UKAS flexible scope. |
| IEC 60079-25  Edition 3.0 | Explosive atmospheres – Part 25: Intrinsically safe electrical systems | Covered by technologically equivalent standard IEC 60079-25, Ed. 2.0, in ISO/IEC 17065 and in ISO/IEC 17025 scopes |
| IEC 60079-26  Edition 3.0 | Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga | Ed. 4.0 in ISO/IEC 17065 and Ed. 3.0 in ISO/IEC 17025 scopes |
| IEC 60079-28  Edition 2.0 | Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation | In ISO/IEC 17065 and ISO/IEC 17025 scopes |
| IEC 60079-29-1  Edition 2.1 | Explosive atmospheres - Part 29-1: Gas detectors – Performance requirements of detectors for flammable gases | Edition 2.0 included ISO/IEC 17065 scope  Form submitted to IECEx secretariat on 2024-04-22. |
| IEC 60079-29-4  Edition 1.0 | Explosive Atmospheres – Part 29-4: Gas detectors - Performance requirements of open path detectors for flammable gases | Not in scope |
| IEC/IEEE 60079-30-1  Edition 1.0 | Explosive atmospheres – Part 30-1: Electrical resistance trace heating – General and testing requirements | In ISO/IEC 17065 and ISO/IEC 17025 scopes |
| IEC 60079-31  Edition 2.0 | Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t" | Ed. 3 is in ISO/IEC 17065 scope.  Ed 2.0 in ISO/IEC 17025 scope. Ed. 3.0 on UKAS flexible scope |
| IEC TS 60079-32-1  Edition 1.1 | Explosive atmospheres - Part 32-1: Electrostatic hazards, guidance  (may be used for testing purposes but not for issuing an IECEx Certificate of Conformity) | Not in scope |
| IEC 60079-32-2  Edition 1.0 | Explosive atmospheres - Part 32-2: Electrostatics hazards - Tests  (may be used for testing purposes but not for issuing an IECEx Certificate of Conformity) | Not in scope |
| IEC 60079-33  Edition 1.0 | Explosive atmospheres – Part 33: Equipment protection by special protection “s” | In ISO/IEC 17065 scope |
| IEC 60079-35-1  Edition 1.0 | Explosive atmospheres – Part 35-1: Caplights for use in mines susceptible to firedamp – General requirements – Construction and testing in relation to the risk of explosion | In ISO/IEC 17065 and ISO/IEC 17025 scope |
| IEC 60079-35-2  Edition 1.0 | Explosive atmospheres – Part 35-2: Caplights for use in mines susceptible to firedamp – Performance and other safety-related matters | Covered by technologically equivalent standard IEC 60079-35-1 in ISO/IEC 17065 scope and in ISO/IEC 17025 scope |
| IS0 80079-36  Edition 1.0 | Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres – Basic method and requirements | In ISO/IEC 17065 and ISO/IEC 17025 scopes |
| 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” | In ISO/IEC 17065 and ISO/IEC 17025 scopes |
| IEC TS 60079-39  Edition 1.0 | Explosive atmospheres - Part 39: Intrinsically safe systems with electronically controlled spark duration limitation | In ISO/IEC 17065 and ISO/IEC 17025 scopes |
| IEC TS 60079-40  Edition 1.0 | Explosive atmospheres - Part 40: Requirements for process sealing between flammable process fluids and electrical systems | Not in scope |
| IEC TS 60079-42  Edition 1.0 | Explosive atmospheres - Part 42: Electrical safety devices for the control of potential ignition sources from Ex-Equipment  (may be used for testing purposes but not for issuing an IECEx Certificate of Conformity) | Not in scope |
| IEC TS 60079-46  Edition 1.0 | Explosive atmospheres – Part 46 - Equipment assemblies | In ISO/IEC 17065 scope |
| IEC TS 60079-47  Edition 1.0 | Explosive atmospheres – Part 47: Equipment protection by 2-wire intrinsically safe Ethernet concept (2-WISE) | Not included in either scope. |
| IEC 62784  Edition 1.1 | Vacuum cleaners and dust extractors providing equipment protection level Dc for the collection of combustible dusts - Particular requirements | Not in scope |
| ISO 16852  Edition 2 | Flame arrestors - Performance requirements., test methods and limits for use | Not in scope |

* 1. Superseded standards

The following superseded standards may form part of a body’s scope, generally for historical reasons.

| Number | Title | Comments |
| --- | --- | --- |
| IEC 60079-27  Edition 2.0 | Explosive atmospheres – Part 27: Fieldbus intrinsically safe concept (FISCO) | Covered by technologically equivalent standard IEC 60079-11 in ISO/IEC 17065 and ISO/IEC 17025 scopes |
| IEC 61241-0  Edition 1.0 | Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements | Covered by technologically equivalent standards IEC 60079-0 and -31 in ISO/IEC 17065 and ISO/IEC 17025 scopes |
| IEC 61241-1  Edition 1.0 | Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosure “tD” | Covered by technologically equivalent standards IEC 60079-0 and -31 in ISO/IEC 17065 and ISO/IEC 17025 scopes |
| IEC 61241-4  Edition 1.0 | Electrical apparatus for use in the presence of combustible dust - Part 4: Protection by pressurization "pD" | Covered by technologically equivalent standards IEC 60079-0 and -2 in ISO/IEC 17065 and ISO/IEC 17025 scopes |
| IEC 61241-11  Edition 1.0 | Electrical apparatus for use in the presence of combustible dust – Part 11: Protection by intrinsic safety 'iD' | Covered by technologically equivalent standards IEC 60079-0 and -11 in ISO/IEC 17065 and ISO/IEC 17025 scopes |
| IEC 61241-18  Edition 1.0 | Electrical apparatus for use in the presence of combustible dust - Part 18: Protection by encapsulation "mD" | Covered by technologically equivalent standards IEC 60079-0 and -18 in ISO/IEC 17065 and ISO/IEC 17025 scopes |
| IEC 62013-1  Edition 2.0 | Caplights for use in mines susceptible to firedamp - Part 1: General requirements - Construction and testing in relation to the risk of explosion | Covered by technologically equivalent standard IEC 60079-35-1 in ISO/IEC 17065 and ISO/IEC 17025 scopes |
| IEC 62013-2  Edition 2.0 | Caplights for use in mines susceptible to firedamp - Part 2: Performance and other safety-related matters | Covered by technologically equivalent standard IEC 60079-35-1 in ISO/IEC 17065 scope and IEC 60079-35-2 in ISO/IEC 17025 scope |
| IECEx DS2015/001A  2015 10 09 | Equipment assemblies | Covered by technologically equivalent technical specification IEC/TS 60079-46 in ISO/IEC 17065 scope |

1. Overall Organisation Chart/ExCB/ExTL

A computer screen shot of a computer

Description automatically generated

1. Accreditation Certificate for ISO/IEC 17065



1. Accreditation Certificate for ISO/IEC 17025

