**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 Certification Management Limited, now Eurofins E&E CML Limited, GB, an Accepted ExCB and an Accepted ExTL 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 IECEx Re-assessment Report for the continued acceptance of Certification Management Limited, now Eurofins E&E CML Limited, GB, an Accepted ExCB and ExTL in the IECEx Scheme, IECEx 02.

This report is hereby submitted for endorsement during the ExMC 2020 Meeting being held in Canada.

***Chris Agius***

**IECEx Secretariat**

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| **IECEx Secretariat****Australia Square****Level 33, 264 George Street****Sydney NSW 2000****Australia** |  **Tel: +61 2 4628 4690** **Fax: +61 2 4625 3480**  **Email: chris.agius@iecex.com** |

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

IECEx Assessment Report Form

IECEx Assessment Report Form for use by IECEx Assessment Teams to report Assessments conducted according to the IECEx Assessment Procedures of

1. Operational Document IECEx OD003-2 for the Certified Equipment Scheme
2. Operational Document IECEx OD316-5 for the Certified Service Facility Scheme
3. Operational Document IECEx OD422 for the IECEx Conformity Mark Licensing System

IECEx ExCB/ExTL assessment report for Certification Management Limited

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 | ✓ |
| ExCB for IECEx Certified Service Facilities Scheme |  |
| ExCB for IECEx Conformity Mark Licensing System | ✓ |

NOTE 1 ExCB - IECEx Certification Body

NOTE 2 ExTL - IECEx Testing Laboratory

## 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

Certification Management Limited

### Name and title of nominated principal contact

|  |  |  |
| --- | --- | --- |
| Name | Title | E-mail address |
| Andy C Smith | Technical Operations Director | Andyc.smith@cmlex.com |

## Assessment information

### Members of the assessment team

|  |  |
| --- | --- |
| Name  | Role  |
| Katy Holdredge | IECEx Lead Assessor |
| Christian Roder | IECEx Assessor |

### Place(s) of assessment

|  |  |
| --- | --- |
| Newport Business ParkNew Port RoadEllesmere Port, Cheshire CH65 4LZ |  |

### Assessment date(s)

2019-04-23 to 2019-04-26

## Application information and background information on the assessment

Information relevant to the Secretariat review process: DTR forwarded 190329

## Scopes

### ExCB scope for equipment certification scheme

CML has a flexible scope of accreditation through UKAS for ISO/IEC 17065 that allows them to include new editions of standards and new standards that are technically equivalent to their scope. There is a form, Flexible Scope of Accreditation, which is submitted to UKAS annually, to describe the list of standards added. In addition, there is a form, Extension to Scope of Accreditation, Version 5.0, that is used to evaluate the addition of each individual standard. All records are stored in CML’s Sharepoint website under Flexible scope. Examples of these forms were viewed for IEC 60079-13 and IEC 60079-15 and the technical equivalency was verified as acceptable.

| Number  | Title  | Comments, e.g. if scope change |
| --- | --- | --- |
| IEC 60079-0 Edition 7.0 | Explosive atmospheres - Part 0: Equipment - General requirements  | In ISO/IEC 17065 and ISO/IEC 17025 scopes |
| IEC 60079-1Edition 7.0 | Explosive atmospheres - Part 1: Equipment protection by flameproofenclosures “d” | In ISO/IEC 17065 and ISO/IEC 17025 scopes |
| IEC 60079-2 Edition 6.0 | Explosive atmospheres - Part 2: Equipment protection by pressurizedenclosure «p» | In ISO/IEC 17065 and ISO/IEC 17025 scopes |
| IEC 60079-5Edition 4.0 | Explosive atmospheres - Part 5: Equipment protection by powder filling «q» | In ISO/IEC 17065 and ISO/IEC 17025 scopes |
| IEC 60079-6Edition 4.0  | Explosive atmospheres - Part 6: Equipment protection by oil immersion «o» | In ISO/IEC 17065 and ISO/IEC 17025 scopes |
| IEC 60079-7Edition 5.1 | Explosive atmospheres - Part 7: Equipment protection by increasedsafety "e" | Edition 5.0 in ISO/IEC 17065 scope and Edition 5.1 covered by flexible scopeEdition 5.1 in ISO/IEC 17025 scope |
| IEC 60079-11Edition 6.0 | Explosive atmospheres - Part 11: Equipment protection by intrinsic safety “i” | In ISO/IEC 17065 and ISO/IEC 17025 scopes |
| IEC 60079-13Edition 1.0 | Explosive atmospheres - Part 13: Equipment protection by pressurized room 'p'  | In ISO/IEC 17065 and ISO/IEC 17025 scopes |
| IEC 60079-13Edition 2.0 | Explosive atmospheres - Part 13: Equipment protection by pressurized room 'p'  | Ed 2.0 covered by flexible scope for ISO/IEC 17065In ISO/IEC 17025 scope |
| IEC 60079-15Edition 5.0 | Explosive atmospheres – Part 15: Equipment protection by type of protection "n" | Edition 4.0 in ISO/IEC 17065 scope and Edition 5.0 covered by flexible scopeIn ISO/IEC 17025 scope |
| IEC 60079-18Edition 4.1 | Explosive atmospheres – Part 18: Equipment protection by encapsulation “m” | Edition 4.0 in ISO/IEC 17065 scope and Edition 4.1 covered by flexible scopeIn ISO/IEC 17025 scope |
| IEC 60079-25Edition 2.0 | Explosive atmospheres – Part 25: Intrinsically safe electrical systems | In ISO/IEC 17065 and ISO/IEC 17025 scopes |
| IEC 60079-26Edition 3.0 | Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga | In ISO/IEC 17065 and ISO/IEC 17025 scopes |
| \*IEC 60079-27Edition 2.0 | Explosive atmospheres – Part 27: Fieldbus intrinsically safe concept (FISCO) | In ISO/IEC 17065 and ISO/IEC 17025 scopes |
| IEC 60079-28Edition 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 60079-29-1Edition 2.0 | Explosive atmospheres - Part 29-1: Gas detectors – Performance requirements of detectors for flammable gases | Edition 1.0 in ISO/IEC 17065 scope and Edition 2.0 covered by flexible scope |
| IEC/IEEE 60079-30-1Edition 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 60079-31Edition 2.0 | Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t" | In ISO/IEC 17065 and ISO/IEC 17025 scopes |
| IEC 60079-33Edition 1.0 | Explosive atmospheres – Part 33: Equipment protection by special protection “s” | In ISO/IEC 17065 scope |
| IEC 60079-35-1Edition 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 60079-35-2Edition 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 |
| ISO 80079-36Edition 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 80079-37Edition 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” | In ISO/IEC 17065 and ISO/IEC 17025 scopes |
| IEC TS 60079-39Edition 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 60079-40Edition 1.0 | Explosive atmospheres-Part 40: Requirements for process sealing between flammable process fluids and electrical systems | In ISO/IEC 17065 and ISO/IEC 17025 scopes |
| IEC/TS 60079-46Edition 1 | Explosive atmospheres - Part 46: Equipment assemblies | In ISO/IEC 17065 scope |
| \*IEC 61241-0Edition 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"  | In ISO/IEC 17065 and ISO/IEC 17025 scopes |
| \*IEC 61241-11Edition 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 61241-18Edition 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 | In ISO/IEC 17065 scope and covered by technologically equivalent standard IEC 60079-35-1 in ISO/IEC 17025 scope |
| IECEx DS2015/001A2015 10 09 | Equipment assemblies | Covered by technologically equivalent technical specification IEC/TS 60079-46 in ISO/IEC 17065 scope |

NOTE 1 Standards shown with an asterisk (\*) are superseded standards

NOTE 2 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.

NOTE 3 The above list highlights any extension of scope in the list above for new standards or later editions of standards already in scope.

### ExTL scope

The scope for CML ExTL is as listed for ExCB except testing for IEC 60079-29-1**:** Part 29-1: Gas detectors - Performance requirements of detectors for flammable gases. CML has an application with the secretariat to add NEPSI as an associated ExTL for this standard. A signed agreement with NEPSI was available, this is being updated to reference the modified name for CML, Eurofins E&E CML Limited. CML has had previous experience as an ExCB for IEC 60079-29-1 working with the previous Gas Performance Testing Services (GasPTS) as an ExTL until their withdrawal from the Scheme.

In addition, CML uses Korea Safety Certification Co. Ltd (KSC) as an associated ExTL, which is covered by a separate audit. The process for accepting ExTRs from KSC is described in CML’s Assessment Procedure document, which is further described in Clause 2.4.2 below.

### ExCB scope for ExMark Scheme

Full scope as shown for ExCB above.

# Common information

## Legal entity of body

Certification Management Limited (Co reg Nr 8554022) registered since 3 June 2013 by the Registrar of Companies for England and Wales located at Newport Business Park, New Port Road, Ellesmere Port UK CH65 4LZ.

## Financial support

There is no financial support, CML is self-funded from the certification and quality assessment activities.

## History

Since June 2013 the company was founded in order to provide certification services to clients. The company obtained UKAS accreditation according to EN ISO IEC 17065 and ISO IEC 17025 (No 8175) and subsequently EU Notification with Notified Body number 2503.

CML produces test reports and issues EC Type Examination Certificates in every type of protection which are valid throughout Europe. This includes issuing Quality Assurance Notifications against the requirements of IEC 80079-34.

A subsidiary company, CML B.V. (Chamber of Commerce No. 6738671) is accredited by RvA No C640 and also operates as an EU Notified Body, No 2776.

Since January 2019 CML has been owned by Eurofins Product Testing UK Holding Limited, part of Eurofins Scientific network of 800 laboratories across 47 countries.

## Documentation

### Quality manual

CML has a Quality Manual, Rev. 14.6, which had some pending revisions awaiting issue to Rev. 15 at the time of the assessment. The Quality Manual had to be revised, under Clause 2.14, to update the location of storing records related to competency and to reference IECEx 01-S for appeals. The policy was revised to the satisfaction of the assessment team and now meets the requirements of the IECEx.

### Procedures

The ExHaz Manual, Rev. 13.3, contains CML’s procedures for evaluation and testing for Ex, which had some pending revisions awaiting issue to Rev. 14 at the time of the assessment. 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. The ExHaz Manual has to be updated to revise the location of the records for “Accepted organizations”, the testing laboratory used for IEC 60079-29-1 testing and the incorporation of the requirements from IECEx OD 209, Requirements and Guidelines for the Suspension, Cancellation and Reinstatement of Certificates of Conformity. The manual was revised to the satisfaction of the assessment team and now meets the requirements of the IECEx.

CML has a Lab Manual, which covers laboratory testing and IEC 17025.

The Surveillance Manual, Rev. 7.1, contains the procedures for conducting quality audit surveillance of manufacturing facilities, which had some pending revisions awaiting issue to Rev. 8 at the time of the assessment. The Surveillance Manual has to be updated to clarify the staff or skills that are required to issue QARs, incorporate the audit requirements for Trade Agents found in Annex A of IECEx OD 203 and management of QARs as described in IECEx OD250, Guidance on the Management of IECEx Quality Assessment Reports. The manual was revised to the satisfaction of the assessment team and now meets the requirements of the IECEx.

### Work instructions

CML has an Ex s procedure, Rev. 2.0, which is in compliance with the requirements of OD233 IECEx Certified Equipment Scheme - Assessment of Ex “s" Equipment.

The procedure for Offsite testing, Rev. 1.0, and Witness testing, Rev. 1.0, 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. CML also has a Witness Test Site Audit form, which includes their assessment of the facility as well as the agreement.

### Records (including test records where relevant)

Records are stored on the company document storage system in electronic format. The QM defines that all records are retained 10 years after cancellation of certification. Paper copies of test records are also retained. This is in compliance with the requirements of the IECEx.

### Document change control

Document change is handled by the document storage system ‘Quality Documents’ library, with documents checked out before they can be modified. Issue level, approval and change record is recorded in the Sharepoint file system. Manuals have the change record included in the document. Procedures and other documents have the change record recorded electronically. This is described in section 14 of the QM.

## Confidentiality

Covered in the Quality Manual section 11.4. Staff contracts have statements regarding 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 an Outsource Agent agreement (OAA) which includes a confidentiality statement. A copy of was viewed and is in compliance with the IECEx requirements.

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

CML have 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 KTL, NEPSI, SHC, CMExC, PCEC, TUV Sud, and KSC.

CML is recognised by US Coast Guard and MA Centre (mining approvals) for Group I China. 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 14.6 (Draft) 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. Horizontal audits for ISO/IEC 17065 and ISO/IEC 17025 audits are conducted on an annual basis. The last ISO/17065 audit was conducted on 2018-11-21 and the last ISO/IEC 17025 audit was conducted on 2018-10-04. Vertical audits for various protection methods are conducted as well; an internal audit for non-electrical was viewed. CML is in compliance with the requirements of the IECEx.

## Management review

Management reviews are held every 3 months 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 2019-02-05 and was attended by the required staff. Next management review is schedule for 2019-05-07. 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

Contract staff include auditors and two engineers. These are registered as outsource 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. These staff sign agreements as described in Clause 2.5.

### Subcontracting

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. A revision to their subcontracting requirements had to be made to include the elements required by Clause 6.6.2 b) and d) of ISO/IEC 17025. The requirements were revised to the satisfaction of the assessment team and now meets the requirements of the IECEx.

The following tests are, or may be, subcontracted by the body, however it has been confirmed that the CML have the capability for conducting tests according to the IECEx Technical Capability Documents, TCD.

| Standard | Clause  | Test |
| --- | --- | --- |
| IEC 60079-0 Ed 6/7 | 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 | 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 60079-5 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 60079-7 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 60079-18 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 60079-28 Ed 2 | 5.2.2.2 | Optical power |
| 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 |

### Witness testing

Witness testing is covered in the ExHaz manual and uses the Witness test and Offsite test procedures. This is in accordance with OD24. Evidence of a signed witness test agreement and completed audit form was reviewed. Witness and offsite testing are identified as a section in the ExTR. CML is in compliance with the requirements of the IECEx.

## 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. CML maintain records on the company ERP system and is in compliance with the requirements of the IECEx.

## Impartiality

The company policy on impartiality is described in the Quality manual section 11.1 and is in compliance with the requirements of the IECEx.

## Commenting on ExTAG Documents

Quality Manual section 11.9 describes the company policy on participation in IECEx ExTAG but does not currently describe the process for commenting on ExTAG DS. The policy was revised to the satisfaction of the assessment team and now meets the requirements of the IECEx.

## 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;
* Checklist for ISO/IEC 17065 and 17065 Compliance Schedule.xlsx;
* Checklist for ISO/IEC 17025 and 17025-2017 Compliance statement.docx;
* Completed Technical Capability Document (TCD); and
* Photos of the facilities/tests witnessed are included in the above TCD.

## Recommendations

Based on the assessment performed on 2019-04-23 to 2019-04-26 Certification Management 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; and
* An ExCB in the IECEx Conformity Mark Licensing System.

This is according to the scope of the standards listed in this document.

|  |  |
| --- | --- |
| Katy Holdredge | Christian Roder |
| IECEx Lead Assessor | IECEx Assessor  |

Date: 2019-10-15

# ExCB 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. 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 Edition 1 and 2.0, Explosive atmospheres – Part 34: Application of quality systems for equipment manufacture
4. OD009 Issuing of CoCs, ExTRs and QARs
5. IECEx Document 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. OD026 IECEx Certified Equipment Scheme – Guidelines for the qualification of Lead Auditor and Auditors, in accordance with the IECEx System
7. OD250 Guidance on the Management of IECEx Quality Assessment Reports (QARs)
8. ISO/IEC 17065: 2012, Edition 1, General requirements for bodies operating product certification systems Conformity assessment — Requirements for bodies certifying products, processes and services
9. IECEx Technical Capability Document (TCD)
10. ExTAG decision sheets (DSs)

NOTE The latest editions of the above documents were applied

### 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 |
| Dave Stubbings | Technical Director |
| Andy Smith | Technical Operations Director |

## Associated ExTL(s)

Certification Management Limited

Korea Safety Certification (KSC)

NEPSI – IEC 60079-29-1 only (application submitted)

[Secretariat note: the agreement between Eurofins E&E CML Limited, GB, and NEPSI, CN is currently out for voting which closes on 2019 12 06].

## Associated certification functions

Certification Management Limited is an ATEX notified body.

## National marks and certificates

CML are accredited by UKAS to issue product certificates in the United Kingdom. They are an EU Notified Body for ATEX, recognised by the Japanese government to issue certificates for Japan.

## Standards accepted

See clause 1.6 of this report.

## National differences to IEC standards

National differences to IEC standards are those for the UK differences listed in the latest version of the IECEx Scheme Bulletin.

## Organisation

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

|  |  |  |
| --- | --- | --- |
| Name | Title | Experience |
| Mike Shearman | Managing Director | 32 years’ experience in working and managing accredited calibration, certification, assessment and test businesses and former Chairman of the European group of notified bodies EXNBG;Managing Director of Sira Certification Service 10 years;Certification Manager at Sira Certification Service 6 years. |
| David Stubbings | Technical Director | 15 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 |
| Andy C Smith | Technical Operations Director | 11 years’ experience in certification17 years’ experience in Ex industry |

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

|  |  |  |
| --- | --- | --- |
| Name | Title | Experience  |
| Mike Shearman | Managing Director | See above |

### Name and title of signatories for certification

|  |  |  |
| --- | --- | --- |
| Name | Title | Comments |
| Mike Shearman | Managing Director | CoC and QAR signatory |
| David Stubbings | Technical Director | CoC and QAR signatory |
| Andy C Smith | Technical Operations Director | CoC and QAR signatory |
| Helen Amos | Certification Manager | Not for QARs |
| Adam Snowdon | Senior Certification Engineer | Not for QARs |
| Ross Marshall | Senior Certification Engineer | Not for QARs |

### Other employees in ExCB activity

|  |  |  |
| --- | --- | --- |
| Name | Title | Responsibility and Experience in Ex |
| Brian Howard | Quality Assistant | Internal quality |
| Afsaneh Jafari | Quality Assistant | Internal quality + surveillance |
| Ann Scott | Administration Manager | Surveillance |

## Organizational structure

See attached organisation chart.

## Indemnity insurance

CML has an insurance policy from HDI Gerling and Axa Corporate Solutions insurance company. A copy of the insurance certificate (no 110-013258685-14023 and XFR0074975LS) was sighted and valid to 31 December 2019 with a total of 10,000,000 EUR in a year for professional liability.

## Resources

CML is equipped with all the necessary resources for IECEx certification. There is a range of manuals, procedures, work instructions and forms for support of the operation at CML. CML has three directors, two quality personnel, two contract engineers, five quality auditors, and one person coordinating surveillance audits on manufacturers.

## Committees (such as governing or advisory boards)

The impartiality committee oversees the work of the certification body and has five members. This is covered under Clause 10 of the Quality manual. The committee last met in May 2018 and a copy of the last minutes were reviewed and in compliance with the IECEx requirements.

## Certification operations

### National approval/certification methods

ATEX, Japan

### Certification policy

The Company is committed to the provision of its Scope of Activities impartially using and maintaining its accreditation and technical knowledge through professional, competent and highly-skilled motivated staff and participation in relevant national and international standardisation activities and coordination groups. The services are equally available to all without qualification or discrimination. The Company is resolved to understanding clients’ needs, advising on appropriate solutions and delivering its services in a credible, competent, and responsive manner. It shall additionally confine its requirements for evaluation, review, decision and surveillance, for accredited Certification, to only those matters specifically related to the applicable scope of service. Staff are empowered without fear of redress to identify and declare any situation or conflict of interest that has the potential to compromise impartiality or objectivity of certification activities. Staff are required to familiarise themselves with the Company documentation relating to quality and also implement its policies and procedures.

The Company is committed to quality and accuracy of its test results and reporting. A flexible scope is operated for testing under ISO IEC 17025 and CML operates within the limits of the accredited scope issued by UKAS**.**

In delivering its services the management system is used to define and control the operations such that consistent, accurate and verifiable services are delivered.

Regulatory bodies are treated with respect and provided access to all systems and data to perform its function. The Company will be transparent and honest in all its communication.

The Company is committed to compliance with all the relevant normative documents governing its services and strives to continually improve the effectiveness and integrity of its management system.

### Application for certification

The application document is the quotation produced from the company ERP system. The application process is described in the ExHaz manual.

### Certification decision

The certification decision is recorded in the evaluation report. The certification decision process is described in the ExHaz manual and is in compliance with the requirements of the IECEx.

### Suspension and cancellation of certificates

Quality Manual section 12 details the process for suspension or cancellation. An update to their requirements was required as described in Clause 2.4.2. The manual was revised to the satisfaction of the assessment team and now meets the requirements of the IECEx.

## Certificates issued

Number of certificates issued under for the preceding four 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 4 years) | Total |
| --- | --- | --- | --- |
| 2015 | 2016 | 2017 | 2018 |
| 60079-1 | Flameproof | 23 | 68 | 92 | 147 | 330 |
| 60079-2 | Pressurised | 6 | 2 | 2 | 10 | 20 |
| 60079-5 | Powder filled | - | 4 | 10 | 5 | 19 |
| 60079-6 | Oil filled | 1 | 1 | 1 | 0 | 3 |
| 60079-7 | Increased safety | 47 | 73 | 110 | 115 | 345 |
| 60079-11 | Intrinsically safe | 30 | 44 | 79 | 85 | 238 |
| 60079-13 | Pressurised room | - | - | 1 | 2 | 3 |
| 60079-15 | Type n | 21 | 18 | 26 | 27 | 92 |
| 60079-18 | Encapsulated | 15 | 35 | 44 | 50 | 144 |
| 60079-26 | Ga | 14 | 2 | 7 | 2 | 25 |
| 60079-28 | Optical radiation | 5 | 21 | 64 | 66 | 156 |
| 60079-29-1 | Gas detectors | - | - | - | 1 | 1 |
| 60079-30-1 | Trace heating | - | 5 | 8 | 9 | 22 |
| 60079-31 | Dust protected | 40 | 79 | 125 | 131 | 375 |
| 60079-33 | Special protection | - | 1 | 14 | 3 | 18 |
| 80079-36 | Non-electrical | - | - | 1 | 4 | 5 |
| 80079-37 | Non-electrical | - | - | - | 1 | 1 |
| 60079-39 | Spark duration limited | - | 1 | - | - | 1 |

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

## National accreditation

CML holds accreditation to ISO/IEC 17065:2012 for product certification through UKAS no. 8175.

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

## 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 seven on the list. In addition, CML tracks QARs linked to their CoCs issued by other ExCBs. Both were effectively being managed by CML. Management of audits is done on their Harmony system in the Customer Assets area of the website.

## Comments (including issues found during assessment)

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

Insufficient manuals/policies/procedures/work instructions for

* Competency records;
* Records for accepted organizations;
* IECEx OD 209, Requirements and Guidelines for the Suspension, Cancellation and Reinstatement of Certificates of Conformity;
* Audit requirements for trade agents, IECEx OD 203,
* Reference to IECEx OD250, Guidance on the Management of IECEx Quality Assessment Reports;
* Subcontracting requirements; and
* Commenting on ExTAG DS.

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 17025:2017 Edition 3, General requirements for the competence of testing and calibration laboratories
5. IECEx Technical Capability Document (TCD)
6. ExTAG decision sheets (DSs)
7. OD 202 IECEx Certified Equipment Scheme – IECEx Proficiency Testing Program

NOTE The latest editions of the above documents were applied.

### 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

NOTE To be added by assessment team. For example ODs for non-electrical or Ex s where applicable.

## ExTL persons interviewed

|  |  |
| --- | --- |
| Name | Position |
| Helen Amos | Certification Manager |
| Adam Snowdon | Senior Certification Engineer |
| Ross Marshall | Senior Certification Engineer |
| Afsaneh Jafari | Quality representative |
| Andy Smith | Senior Certification Engineer |
| Ann Scott | Administration Manager |
| Mark Powers | Senior Laboratory Engineer |
| Andrew C Smith | Technical Operations Director, Laboratory Manager, Certification Manager |
| Mike Wilson | Deputy Laboratory Manager |
| Joshua Shearman | Laboratory Engineer |
| Liam Jones | Laboratory Engineer |
| Graeme Powers | Senior Laboratory Engineer |
| Colin Whitfield | Laboratory Engineer |

## Associated ExCB(s)

Certification Management Limited.

## Organisation

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

|  |  |  |
| --- | --- | --- |
| Name | Title | Experience |
| As described for the CB | - | - |

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

|  |  |  |
| --- | --- | --- |
| Name | Title | Experience  |
| Mike Shearman | Managing Director | See above |

### Other employees in ExTL activity

| Name | Title/responsibility | Experience in Ex |
| --- | --- | --- |
| Helen Amos | Certification Manager | 12 years |
| Adam Snowdon | Senior Certification Engineer | 9 years |
| Ross Marshall | Senior Certification Engineer | 3 years |
| Afsaneh Jafari | Quality representative | 10 years |
| Ali Borujerdi | Certification Engineer | 9 years |
| Andrew Holmes | Technical Manager | 14 years |
| Andrew Templer | Principal Certification Engineer | 30+ years |
| Andy Smith | Senior Certification Engineer | 26 years |
| Anil Pall | Certification Engineer | 10 years |
| Ann Scott | Administration Manager | 13 years |
| Anthony Berkson | Laboratory assistant | 3 years |
| Colin Whitfield | Laboratory assistant | 3 years |
| Dave Benstead | Senior Certification Engineer | 10 years |
| Dave Blenkley | Certification Engineer | 4 years |
| Graeme Powers | Senior Laboratory Engineer | 15 years |
| Harriet Cleave | Certification Engineer | 4 years |
| Iain Leadley | Certification Engineer | 10 years |
| Josh Shearman | Laboratory Engineer | 2 years |
| Kevin Stockwell | Senior Certification Engineer | 10 years |
| Liam Jones | Laboratory Engineer | 9 years |
| Mark Powers | Senior Laboratory Engineer | 15 years |
| Mike Wilson | Principal Laboratory Engineer | 23 years |
| Neil Hughes | Principal Certification Engineer | 25 years |
| Stylianos Roumbedakis | Technical Manager | 10 years |

## Organizational structure

See the organisation chart

## Resources

CML is equipped with all the necessary resources for operating the IECEx ExTL. A total of sixteen engineers supported by seven laboratory staff and administrative personnel such as sales and accounts staff.

They have two laboratory units with a range of test equipment to perform the tests required.

## Test reports issued

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

| Standard numbers | Type of protection or other identifying information | Number of issued reports (ExTRs) (for last 4 years) | Total |
| --- | --- | --- | --- |
| 2015 | 2016 | 2017 | 2018 |
| 60079-1 | Flameproof | 23 | 68 | 92 | 147 | 330 |
| 60079-2 | Pressurised | 6 | 2 | 2 | 11 | 21 |
| 60079-5 | Powder filled | - | 4 | 10 | 5 | 19 |
| 60079-6 | Oil filled | 1 | 1 | 1 | 0 | 3 |
| 60079-7 | Increased safety | 47 | 73 | 110 | 116 | 346 |
| 60079-11 | Intrinsically safe | 30 | 44 | 79 | 85 | 238 |
| 60079-13 | Pressurised room | - | - | 1 | 2 | 3 |
| 60079-15 | Type n | 21 | 18 | 26 | 27 | 92 |
| 60079-18 | Encapsulated | 15 | 35 | 44 | 49 | 143 |
| 60079-26 | Ga | 14 | 2 | 7 | 2 | 25 |
| 60079-28 | Optical radiation | 5 | 21 | 64 | 66 | 156 |
| 60079-29-1 | Gas detectors | - | - | - | 1 | 1 |
| 60079-30-1 | Trace heating | - | 5 | 8 | 9 | 22 |
| 60079-31 | Dust protected | 40 | 79 | 125 | 131 | 375 |
| 60079-33 | Special protection | - | 1 | 9 | 3 | 13 |
| 80079-36 | Non-electrical | - | - | 1 | 3 | 4 |
| 80079-37 | Non-electrical | - | - | - | 1 | 1 |
| 60079-39 | Spark duration limited | - | 1 | - | - | 1 |

**NOTE 1 Above include reports to IEC 60079-0 unless otherwise shown**

**NOTE 2 Where the number of reports is low, assessors are expected to carefully check current capability and document the process in this report.**

## National accreditation

CML holds accreditation to ISO/IEC 17025:2005 through UKAS no. 8175.

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

## Calibration

UKAS accredited calibration and some internal calibration is carried out using UKAS accredited calibrated items. Covered by the Internal calibration procedure.

##  Tests witnessed during the assessment visit

The following tests were witnessed during the assessment visit:

|  |  |  |  |
| --- | --- | --- | --- |
| Standard and edition | Clause number | Test | Comments |
| IEC 60079-1, Edition 7.0 | 15.2.2 | Flameproof pressure determination (for Group IIC) | Conducted by Graeme Powers |
| IEC 60079-11, Edition 6.0 | 10.1 | Use of spark test apparatus on a battery | Conducted by Mark Powers |
| IEC 60079-11, Edition 6.0 | 10.5.3 | Temperature rise test on battery for is | Conducted by Mark Powers |
| IEC 60079-0, Edition 7.0 | 26.13 | Electrostatic measure, surface resistance | Conducted by Mark Powers |
| IEC 60079-0, Edition 7.0 | 26.5 | Temperature rise, preferably of a luminaire | Conducted by Joshua Shearman |
| IEC 60079-31, Edition 2.0 | 6.1.1.4 | IP6X/5X test | Conducted by Liam Jones |
| IEC 60079-18, Edition 4.1 | 8.1.2 | Encapsulation, material dielectric strength | Conducted by Colin Whitefield |
| IEC 60079-28, Edition 2.0 | 5.2.2.3 | Ex op is measurement of Optical irradiance | Demonstrated by Mark Powers |

The laboratory, as well as the interviewed staff, have a very high knowledge of the explosion protection, as well as for general requirements for laboratory. All witnessed tests were according to the standards and the internal procedures.

## Participation in IECEx Proficiency Testing Programs

Program: PTB Ex PT Scheme

NOTE It is anticipated that the assessment team will be provided with information on the performance of the body in completed PTB Ex PT Scheme programs.

|  |  |  |
| --- | --- | --- |
| Year(s) of participation | IECEx Proficiency Testing program | General information about results |
| Since 2013 | EP2010FT2013TC2013IS2015EP2017EC2015 (not completed – scheduled for completion in October 2019)PE2017 (not completed – scheduled for completion in October 2019) | All results within median band |

## Comments (including issues found during assessment)

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

* Insufficient manuals/policies/procedures/work instructions for rented equipment, surveillance of lab suppliers, and description of roles/functions;
* Overdue/insufficient calibration; and
* Need to complete EC2015 and PE2017 proficiency testing programs.

[Secretariat note: The secretariat has been advised by PTB that CML is undertaking the above programmmes]

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

# IECEx Conformity Mark Licensing System

## Assessment references

1. IECEx04 IECEx Certified Equipment Scheme covering equipment for use in explosive atmospheres – IECEx Conformity Mark Licensing System – Regulations
2. IECEx04A IECEx Certified Equipment Scheme covering equipment for use in explosive atmospheres – Guidance for making applications for and use of IECEx Conformity Mark
3. OD022 IECEx Certified Equipment Scheme covering equipment for use in explosive atmospheres – Rules and Procedures for the granting of Licenses to issue and use the IECEx Conformity Mark
4. OD023 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)

CML covers the requirements for the Conformity Mark License System under Surveillance Manual & IECEx Mark Application.

#  Annexes

See Contents. (add, modify or delete annexes as necessary).

1. Overall Organisation Chart



1. Accreditation Certificate for ISO/IEC 17065



1. Accreditation Certificate for ISO/IEC 17025

