**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****CSA Group Testing UK Ltd - CSA UK – (CSAE) an Accepted ExCB within the IECEx Equipment Scheme 02, IECEx Certified Service Facility Scheme 03 and IECEx Conformity Mark Licensing System, 04.**

**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 Reassessment Report for the continued acceptance CSA Group Testing UK Ltd - CSA UK – (CSAE) an Accepted ExCB within the IECEx Equipment Scheme 02, IECEx Certified Service Facility Scheme 03 and IECEx Conformity Mark Licensing System, 04.

This report is hereby submitted for endorsement during the 2023 ExMC Meeting.

***Chris Agius***

**IECEx Secretariat**

|  |  |
| --- | --- |
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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

CSA Group Testing UK Ltd

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

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# Assessment information

## Type of body covered by this assessment:

<Check appropriate boxes>

|  |  |
| --- | --- |
| ExCB for IECEx Certified Equipment Scheme | [x]  |
| ExTL for IECEx Certified Equipment Scheme | [x]  |
| ATF for IECEx Certified Equipment Scheme | [ ]  |
| ExCB for IECEx Certified Service Facilities Scheme | [x]  |
| ExCB for IECEx Conformity Mark Licensing System | [x]  |
| ExCB for IECEx Certification of Personnel Competency SchemeHowever, during the re-assessment CSA took the decision to withdraw from the IECEx 05 CoPC Scheme | [x]  |

NOTE 1ExCB - IECEx Certification Body

NOTE 2 ExTL - IECEx Testing Laboratory

 NOTE 3 ATF - Additional Testing Facility

## Type of assessment:

<Check appropriate boxes>

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

## Details of body

### Country

UNITED KINGDOM

### Name of body

CSA Group Testing UK Ltd - CSA UK – (CSAE)

### Name and title of nominated principal contact

|  |  |  |
| --- | --- | --- |
| Name | Title | E-mail address |
| Neil Jones | Technical Oversight Manager | neil.jones@csagroup.org |

## Assessment information

### Members of the assessment team

|  |  |
| --- | --- |
| Name  | Role  |
| Thierry HOUEIX | IECEx Lead Assessor |
| Eduardo GALERA | IECEx Assessor |

### Place(s) of assessment

|  |  |
| --- | --- |
| CSA Group Testing UK Ltd By remote assessment | CSA Group Testing UKUnit 6, Hawarden Industrial Park,Hawarden, Deeside, CH5 3US |

### Assessment date(s)

For IECEx02 - Remote assessment conducted according to IECEx OD 060 on 11th to 15th October 2021.

For IECEx05 - Remote assessment conducted according to IECEx OD 060 on 21st & 22nd September 2021, plus follow up reviews.

## Application information and background information on the assessment

CSA Group Testing UK Ltd was named Sira Certification Service before 1st April 2021. Sira Certification Service was accepted as an IECEx02 Certifying Body and Testing Laboratory since 1999, IECEx 03 Certification Body since 2006 and as an IECEx05 Certifying Body since 2010.

This was a re-assessment for their continuance acceptance as an IECEx CB and IECEx TL.

However, on Nov 2021, CSA Group Testing UK Ltd has decided to transfer the IECEx05 certification to Exert (XRT) in Norway.

## Scopes

### ExCB & ExTL scope for IECEx Equipment Scheme

| **Number**  | **Title**  | ExCB/ExTL |
| --- | --- | --- |
| IEC 60079-0 Ed. 6 | Explosive atmospheres - Part 0: Equipment - General requirements | Included |
| IEC 60079-1 Ed. 7 | Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures “d” | Included |
| IEC 60079-2 Ed. 5 | Explosive atmospheres - Part 2: Equipment protection by pressurized enclosure «p» | Included |
| IEC 60079-5 Ed. 3 | Explosive atmospheres - Part 5: Equipment protection by powder filling «q» | Included |
| IEC 60079-6 Ed. 3 | Explosive atmospheres - Part 6: Equipment protection by oil immersion «o» | Included |
| IEC 60079-7 Ed. 4 | Explosive atmospheres - Part 7: Equipment protection by increased safety "e" | Included |
| IEC 60079-11 Ed. 6 | Explosive atmospheres - Part 11: Equipment protection by intrinsic safety “i” | Included |
| IEC 60079-13 Ed. 1 | Explosive atmospheres - Part 13: Equipment protection by pressurized room 'p' | Included |
| IEC 60079-15 Ed. 4 | Explosive atmospheres - Part 15: Equipment protection by type of protection "n" | Included |
| IEC/TR 60079-16 | Explosive atmospheres - Part 16: Artificial ventilation for the protection of analyser (s) houses | Not included |
| IEC 60079-18 Ed. 3 | Explosive atmospheres - Part 18: Equipment protection by encapsulation “m” | Included |
| IEC 60079-25 Ed. 2 | Explosive atmospheres - Part 25: Intrinsically safe electrical systems | Included |
| IEC 60079-26 Ed. 2 | Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga | Included |
| \*IEC 60079-27 Ed. 1 | Explosive atmospheres - Part 27: Fieldbus intrinsically safe concept (FISCO) | Included |
| IEC 60079-28 Ed. 2 | Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation | Included |
| IEC 60079-29-1 Ed. 1 | Explosive atmospheres - Part 29-1: Gas detectors - Performance requirements of detectors for flammable gases | Included |
| IEC 60079-29-4 | Explosive atmospheres - Part 29-4: Gas detectors - Performance requirements of open path detectors for flammable gases | Not included |
| IEC/IEEE 60079-30-1 Ed. 1 | Part 30-1: Electrical resistance trace heating - General and testing requirements | Included |
| IEC 60079-31 Ed. 2 | Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t" | Included |
| IEC 60079-33 Ed. 1 | Explosive atmospheres - Part 33: Equipment protection by special protection "s" | Not included |
| IEC 60079-35-1 | 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 | Not included |
| IEC/TS 60079-40 | Explosive atmospheres - Part 40: Requirements for process sealing between flammable process fluids and electrical systems | Included |
| IEC/TS 60079-46 Ed. 1 | Explosive atmospheres - Part 46: Equipment assemblies | Included |
| \*IEC 61241-0 Ed. 1 | Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements | Included |
| \*IEC 61241-1 Ed. 1 | Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosure “tD” | Included |
| \*IEC 61241-1-1 Ed. 1 | Electrical apparatus protected by enclosures and surface temperature limitation – specification for apparatus  | Included |
| \*IEC 61241-4 Ed. 1 | Electrical apparatus for use in the presence of combustible dust - Part 4: Protection by pressurization "pD"  | Included |
| \*IEC 61241-11 Ed. 1  | Electrical apparatus for use in the presence of combustible dust – Part 11: Protection by intrinsic safety 'iD' | Included |
| \*IEC 61241-18 Ed. 1  | Electrical apparatus for use in the presence of combustible dust - Part 18: Protection by encapsulation "mD" | Included |
| \*IEC 61779-1 Ed. 1 | Electrical apparatus for the detection and measurement of flammable gases - Part 1: General requirements and test methods | Included |
| \*IEC 61779-2 Ed. 1 | Electrical apparatus for the detection and measurement of flammable gases - Part 2: Performance requirements for group I apparatus indicating a volume fraction up to 5% methane in air | Included |
| \*IEC 61779-3 Ed. 1 | Electrical apparatus for the detection and measurement of flammable gases - Part 3: Performance requirements for group I apparatus indicating a volume fraction up to 100% methane in air | Included |
| \*IEC 61779-4 Ed. 1 | Electrical apparatus for the detection and measurement of flammable gases - Part 4: Performance requirements for group II apparatus indicating a volume fraction up to 100% lower explosive limit | Included |
| \*IEC 61779-5 Ed. 1 | Electrical apparatus for the detection and measurement of flammable gases - Part 5: Performance requirements for group II apparatus indicating a volume fraction up to 100% gas | Included |
| \*IEC 62013-1 Ed. 2 | Caplights for use in mines susceptible to firedamp - Part 1: General requirements - Construction and testing in relation to the risk of explosion | Included |
| \*IEC 62086-1 | Electrical resistance trace heating – Part 1: General and testing requirements | Included |
| ISO 80079-36 Ed. 1 | Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres – Basic method and requirements | Included |
| ISO 80079-37 Ed. 1 | 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" | Included |

### ExCB scope for Service Facilities Scheme

Equipment repair, including equipment repair standard and associated protection techniques.

| IEC 60079-19Edition 4.0 | Explosive atmospheres – Part 19: Equipment repair, overhaul and reclamation | Comments |
| --- | --- | --- |
| **With the following types of protection** | **ID** |  |
| Flameproof Enclosure "d" | d | Included |
| Increased Safety "e" | e | Included |
| Type of Protection "n" | n | Included |
| Intrinsic Safety "i" | i | Included |
| Oil Filled "o" | o | Included |
| Pressurisation "p" | p | Included |
| Dusts to IEC 60079-31 "t" | t | Included |
| Dusts to IEC 61241-1 "tD" | tD | Included |
| Dusts to IEC 61241-1-1 "DIP" | DIP | Included |

### ExCB scope for Conformity Mark Licensing Scheme

Full scope as shown for ExCB above. <Note if otherwise>

### ExCB scope for IECEx Personnel Competence Scheme

Since the assessment performed in October 2021 CSA Group Testing UK Ltd has decided to transfer all the CoPC certificates to Exert (XRT) in Norway.

# Common information

## Legal entity of body

Private limited company, UK registration number 02888007, previously part of Sira group of companies subject to acquisition by CSA in 2009. The legal entity document was reviewed during the assessment and found to meet the requirements of the IECEx.

## Financial support

CSA Group Testing UK Limited is 100% owned by CSA Group Testing & Certification Inc.
(HQ: Toronto). The site receives no financial support from within the group or from outside the group. The organisation is reliant on revenues generated from testing and certification business streams.

## History

CSA Group Testing UK Limited, formerly Sira, was established as a research organisation and in the 1980’s, became involved in certification activities. In 2009, CSA Group acquired Sira Certification Service to expand its European operations. Today, CSA Group Testing UK Limited offers many testing and certification services associated with hazloc and industrial equipment, environmental monitoring equipment, functional safety and management systems

## Documentation

### Quality manual

CSA UK has a comprehensive quality manual supported by other procedural documents, which refer to ISO 9001, ISO/IEC 17024, ISO/IEC 17025 and ISO/IEC 17065 standards.

### Procedures

CSA UK has a very comprehensive range of procedures covering all aspects of the testing operations that were audited as part of this assessment. Where applicable each procedure has with it an associated test sheet for completion by the staff. These Procedures were found to meet the requirements of IECEx.

### Work instructions

Detailed work instructions for IECEx activities exist . Records were checked and found to meet the requirements of the IECEx

Not applicable for the IECEx Personnel Competence Scheme

### Records (including test records where relevant)

All records are maintained and stored electronically. There is also an archiving process in place for older records. The system meets the process requirements of OD 207. The overall system meets the requirements of IECEx.

### Document change control

Document change control is affected by having the master document as the electronic document on the intranet.

Printed copies are effectively uncontrolled and show that it is requested to check the validity before use.

## Confidentiality

All employees and members of committees sign confidentiality agreements. Examples of these were sighted by the team and found to meet the requirements of the IECEx

There is a system of security control at the main entrance gate and entrance to buildings is controlled by key pad.

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

IECEx scheme rules for CSA UK Ex certification are available on the CSA UK’s website

## Recognitions and agreements

CSA UK has several agreements with organisations in other countries. These organisations are mainly part of CSA Group like TL’s in Asia, Europe and North America. These Testing Labs are all recognised as ExTL within IECEx 02. In addition, a formal agreement is in preparation. These are not applicable for the IECEx Personnel Competence Scheme.

CSA UK has National Accreditation for ISO/IEC 17025 and ISO/IEC 17065. This has been verified during the course of the assessment.

## Internal audit

There is an overall audit system for CSA UK, including at technical level, with the Ex operations. CSA UK does have in place a method of regularly (generally monthly) investigating existing testing, assessment, examination, and audit activities.

Internal audits are done once a year for each type of operation

## Management review

The management review meeting that took place on 2021-05-05 was reviewed. It includes internal audits, corrective actions/accreditation audits, customer satisfaction (including complaints), data on number of certificates issued (including IECEx certificates), meeting of certification committee.

## Contracting, subcontracting and witness testing

### Contracting

CSA UK maintains a register of all external contractors and subcontractors which is reviewed periodically. All external bodies are required to be under agreement covering amongst other matters, confidentiality, impartiality, and competence. The review shall take account of performance and accreditation/recognition status. Most subcontractors are accredited test and calibration laboratories.

### Subcontracting

External contractors or subcontractors are not used for product certification evaluation.

However, four external auditors (QAR) are selected to be used.

### Off-site and Witness testing

CSA UK performs some off-site and witness testing. These tests are recorder in the OD024 register.

## Training and competence

All staff employed are selected for qualifications and/or experience relevant to their responsibilities. Each member of staff has a full job description, which comprehensively defines their responsibilities, job function, qualification requirements and their position within the organisation.

There is a competency matrix for the IECEx Scheme. Interviews were undertaken with staff to ensure that they had the required level of understanding. Training records for each staff member are held on an Intranet system and are very comprehensive. Details of staff competencies are included in the site assessment report.

## Complaints and appeals (including appeals to IECEx)

There is a general process in CSA UK for internal complaints, internal and external audits, and external complaints. This covers the complaints mechanism requirements of the ExCB and ExTL.

## Impartiality

CSA UK’s staff (internal and external) involved in the process of certification activities has signed a commitment regarding impartiality and confidentiality. This document is named ‘Associates Agreement’.

There is an Impartiality Committee at CSA UK which meets once a year in the end of the Steering Committee.

## Active involvement in development of Decision Sheets

CSA UK’s staff do participate actively in development of IECEx Scheme and in commenting on Decision Sheets

## Special facts to be noted

Due to the change of the name of the ExCB, it has to be noted that CSA UK is responsible to maintain the certificates previously issued by SIRA Certification Service with the identifier SIR.

## 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 17025
* Completed Technical Capability Document (TCD)
* Photos of the facilities/tests witnessed are included in the above TCD
* Information on competencies
* Assessors’ notes

## Recommendations

Based on the assessment performed on 21 & 22 September 2021 and on 11 to 15 October 2021 and the resolution of the Findings/Issues, CSA Group Testing UK Ltd is recommended for continued acceptance in the IECEx scheme as:

* An ExTL in the IECEx Certification of Equipment Scheme
* An ExCB in the IECEx Certification of Equipment Scheme
* An ExCB in the IECEx Certification of Service Facilities Scheme

This is according to the scope of the Equipment standards (IECEx 02) and Types of protection (IECEx 03) listed in this document, subject to resolution of the issues found during the assessment

|  |  |  |
| --- | --- | --- |
| . Thierry HOUEIX | Eduardo GALERA |  |
| IECEx Lead Assessor | IECEx Assessor  | IECEx Assessor |

Date: 2022 07 22

# ExCB for IECEx Certified Equipment Scheme

* 1. **Assessment references**
		1. **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

* + 1. **Additional references applied for this assessment**

## IECEx OD 280 Guide to Certification of Non-electrical Equipment and Protective System

* 1. **ExCB persons interviewed**

|  |  |
| --- | --- |
| **Name** | **Position** |
| Matthew Fielding | Audit Team Manager |
| Paul Young | Operations Manager |
| Ed Sutcliffe | Product Group Manager |
| Sean Kiely | Team Lead |
| Braxton Chong | Team Lead |
| Alan Myler | Quality Assurance Coordinator |
| Wayne Thomas | Accreditation Manager, Europe & Asia |

* 1. **Associated ExTL(s)**
* CSA Group Testing UK Ltd - UNITED KINGDOM
	1. **Associated certification functions**
* IECEx 02 Product Certification
* IECEx 03 Service Facility Certification
* IECEx 04 Conformity Mark
	1. **National marks and certificates**

CSA Group Testing UK Ltd is an Approved Body under the British Regulation for Explosive Atmosphere: S.I. 2016/1107: Approved Body number is 0518.

* 1. **Standards accepted**

See clause 1.6 of this report

* 1. **National differences to IEC standards**

National differences to IEC standards are listed in the latest version of the IECEx System Bulletin.

* 1. **Organisation**
		1. **Names, titles and experience of the senior executives**

|  |  |  |
| --- | --- | --- |
| **Name** | **Title** | **Experience (years)** |
| James May | Director | 10 years |
| Michelle Halliwell | Operations Manager | 17 years |

* + 1. **Name, title and experience of the quality management representative**

|  |  |  |
| --- | --- | --- |
| **Name** | **Title** | **Experience (years)** |
| Alan Myler | Quality Assurance Coordinator | 10 years |

* + 1. **Name and title of signatories for certification**

|  |  |  |
| --- | --- | --- |
| **Name** | **Title** | **Comments** |
| James May | Director | 10 years |
| Neil Jones | Technical Oversight Manager | 30 years |
| Michelle Halliwell | Operations Manager | 17 years |
| Matthew Fielding | Product Group Manager | 32 years |

* + 1. **Other employees in ExCB activity**

|  |  |  |
| --- | --- | --- |
| **Name** | **Title** | **Experience in Ex (years)** |
| Wayne Thomas | Accreditation Manager, Europe & Asia | 18 years |

* 1. **Organizational structure**

See Annex A

* 1. **Indemnity insurance**

**CSA UK** holds professional indemnity and public liability insurance referenced PLB009730 issued by American International Group UK, AIG Insurance Company of Canada and Zurich Insurance. These are covered in one policy from 01 03 2021 was reviewed, and its validity was found to be extended every year. The cover is worldwide and all certification activity which means that IECEx certification is included.

**CSA UK** have a general liability assurance by American International Group UK, AIG Insurance Company of Canada and Zurich Insurance up to 01-Mar-2023.These insurances include certification activity performed by the UK branch which include IECEx 03.

* 1. **Resources**

CSA UK has an adequate number of personnel and facilities, to meet the current level of business. They are experienced in Ex activities.

The offices are located in an industrial unit which provides an adequate environment for the work.

* 1. **Committees (such as governing or advisory boards)**

The composition and terms of reference of the Certification Impartiality Committee are given in Quality Manual. The Ex Committee comprises representatives of manufacturers and users with no single interest predominating. The content of the procedures meets the requirements of ISO/IEC 17065 and the IECEx requirements. The CSA Group committee for safeguarding impartiality last met on 26th May 2022, and prior to that on 17th December 2021

* 1. **Certification operations**
		1. **National approval/certification methods**

**CSA UK** is recognised under the National accreditation systems and schemes. It has procedures for compliance with IECEx Rules and Operational Documents. **CSA UK** was before 1/1/21 a Notified Body, No. 0518 regarding ATEX Directive 2014/34/EU and now an Approved Body against the UK Regulation SI 2016/1107.

* + 1. **Certification policy**

The Quality Manual is available in printed form. It contains a quality policy which is generic, but it is written that the aim of CSA UK is to provide services regarding Ex equipment. Further aspects related to certification policy are covered in the general quality policy and were seen to be in conformity with the requirements of ISO/IEC 17065 and IECEx 02.

* + 1. **Application for certification**

The complete certification process for delivering certificates is contained in the Quality Manual and in DQD558.14 or Form 9118 and DQD540.06 which are provided to customers by email. The procedures were found by the assessment team to meet the requirements of IECEx.

* + 1. **Certification decision**

The certification decision is taken by the Technical Oversight Manager assisted by the Hawarden Certification Office. Only those managers who are authorized to turn a draft CSA UK certificate into a current one have access to the appropriate IECEx password. The personnel who make the certification decision are different to those that carry out the audits, inspections, verifications and/or testing. This meets the requirements for ISO/IEC 17065 and IECEx.

The above is documented in the “Ex Haz Area Procedures Part 1”, which includes the Competency Matrix for ExCB.

* + 1. **Suspension and cancellation of certificates**

The suspension of certificates rules is well defined in CSA Group Testing UK Quality Manual and there is specific reference as to how this relates to the IECEx System.

* 1. **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):

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CSAE + SIR** | **2017** | **2018** | **2019** | **2020** | **2021** |
| IEC 60079-0  | 341 | 327 | 390 | 351 | 298 |
| IEC 60079-1  | 153 | 169 | 182 | 148 | 128 |
| IEC 60079-2  | 5 | 4 | 6 | 5 | 4 |
| IEC 60079-5  | - | - | - | 1 | - |
| IEC 60079-6  | - | - | 2 | - | - |
| IEC 60079-7 | 99 | 113 | 117 | 103 | 89 |
| IEC 60079-11 | 126 | 144 | 187 | 199 | 142 |
| IEC 60079-15 | 49 | 39 | 52 | 36 | 32 |
| IEC 60079-16 | 49 | 39 | 52 | 36 | 32 |
| IEC 60079-18 | 47 | 34 | 37 | 23 | 23 |
| IEC 60079-25 | - | - | - | - | - |
| IEC 60079-26 | 31 | 35 | 31 | 44 | 28 |
| IEC 60079-27 | - | - | - | - | - |
| IEC 60079-28 | 41 | 29 | 41 | 20 | 36 |
| IEC 60079-29-1 | 2 | 7 | 8 | 2 | 2 |
| IEC 60079-29-4 | 2 | 7 | 8 | 2 | 2 |
| IEC 60079-30 | 26 | 4 | 6 | 2 | - |
| IEC 60079-31 | 145 | 151 | 134 | 110 | 123 |
| IEC 61241-1 | 5 | 9 | 8 | 5 | 8 |
| IEC 61241-1-1 | 5 | 9 | 8 | 5 | 8 |
| IEC 61241-11 | - | - | - | 3 | 3 |
| ISO 80079-36 | 4 | 2 | 3 | 2 | 3 |
| ISO 80079-37 | 4 | 2 | 3 | 2 | 1 |

* 1. **National accreditation**

The national accreditation certification for ISO/IEC 17065 is shown in Annex D.

* 1. **Assessment of manufacturers and issue of QARs**

DQD 340 Procedure addresses assessments of manufacturers. The report format includes all the requirements from the IECEx Scheme together with ATEX and ISO 9001 requirements as applicable.

For IECEx certification schemes a set of documented procedures is in place to enable surveillance to be carried out in accordance with the criteria of the certification systems. The requirements for manufacturing surveillance activities (including initial and ongoing inspection of product during manufacture, audit of quality system and audit of products) are detailed within the relevant scheme rules and reflected in CSA procedures and work instructions.

* 1. **Comments (including issues found during assessment)**

Minor issues were found which were cleared to the satisfaction of the assessment team after the assessment.

These included:

• Management of certificates linked to non-valid QARs

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

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

* + 1. **Additional references applied for this assessment**

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

* 1. **ExTL persons interviewed**

|  |  |
| --- | --- |
| **Name** | **Position** |
| Declan Boyle | Team Lead |
| Spyros Papanastasiou | Technician |
| Ian Carrington | Technician |
| Iker Amuchastegui | Technician |

* 1. **Associated ExCB(s)**
* CSA Group Testing UK Ltd - UNITED KINGDOM

<To be initially completed by body being assessed>

* 1. **Organisation**

<Tables below to be initially completed by body being assessed>

* + 1. **Names, titles and experience of the senior executives**

|  |  |  |
| --- | --- | --- |
| **Name** | **Title** | **Experience (years)** |
| James May | Director | 10 years |
| Michelle Halliwell | Operations Manager | 17 years |

* + 1. **Name, title and experience of the quality management representative**

|  |  |  |
| --- | --- | --- |
| **Name** | **Title** | **Experience (years)** |
| Alan Myler | Quality Assurance Coordinator | 10 years |

* + 1. **Other employees in ExTL activity**

|  |  |  |
| --- | --- | --- |
| **Name** | **Title/responsibility** | **Experience in Ex (years)** |
| Andrew Keenan | Technician | 7 years |
| Josh Willis | Technician | 7 years |
| Neil Jones | Technical Oversight Manager | 30 years |

* 1. **Organizational structure**

See Annex A

<To be initially completed by body being assessed> with details possibly inserted in relevant Annexes.

* 1. **Resources**

The Ex operation at **CSA UK** has several professional and technical staff involved in Ex testing. It has a comprehensive range of testing equipment and good facilities for this type of testing.

* 1. **Test reports issued**

Number of test reports (ExTRs) 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 ExTRs should be shown (test reports for other schemes may also be shown):

See the table in clause 3.14.

* 1. **National accreditation**

<To be initially completed by body being assessed> (Scope to be checked by assessment team)

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

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

* 1. **Calibration**

The majority of test equipment is sent out for calibration by an external calibration facility. These calibration facilities are UKAS accredited.

However, the calibration procedure requires review to ensure that when test equipment is returned and has been adjusted or recorded as requiring adjustment. Action is taken in respect of reviewing previous results where the equipment has been used See below

* 1. **Tests witnessed during the assessment visit**

The following tests were witnessed during the assessment visit:

* IEC 60079-0 - Surface resistance test
* IEC 60079-0 - Dust Ingress Protection IP6X/5X
* IEC 60079-0 - Water Ingress Protection IPX4/X5
* IEC 60079-1 - Flameproof pressure determination
* IEC 60079-1 - Overpressure test
* IEC 60079-1 - Transmission test
* IEC 60079-7 - Temperature rise
* IEC 60079-11 - Tests for temperature rise/determination of the maximum short current
* IEC 60079-11 - Spark ignition test
* IEC 60079-18 - Dielectric strength test
* IEC 60079-31 - Pressure test
	1. **Participation in IECEx Proficiency Testing Programs**

Program: PTB Ex PT Scheme <note if involved in any other program>

|  |  |  |
| --- | --- | --- |
| **Year(s) of participation** | **IECEx** **Proficiency Testing program** | **General information about results** |
| 2021 | Flameproof joints & small components | CSA is participating in both – testing is ongoing. Results expected March 2022. |
| 2019 | Enclosures and battery testing | No results that raised any “warning signals” or “action signals” and therefore there no follow up testing required. |
| 2017 | Explosion Pressure and Pressurized Enclosure | No results that raised any “warning signals” or “action signals” and therefore there no follow up testing required. |

* 1. **Comments (including issues found during assessment)**

None

<Information should be included about the nature of the issues found together with an indication that they have been resolved to the satisfaction of the assessment team>

1. **ExCB for Certified Service Facilities Scheme**
	1. **Assessment references**
		1. **General references**
2. IECEx 03-\* IECEx Certified Service Facilities Scheme covering repair and overhaul of Ex equipment – Rules of Procedure for the Scheme (IECEx 03-0) and for “sub-Schemes” on particular service activities (IECEx 03-2, 03-3, 03-4 and 03-5)

IECEx OD 316-2 IECEx Certified Service Facilities Scheme – Part 2: Selection of Ex equipment and design of Ex installations Assessment procedures for IECEx acceptance of Candidate Certification Bodies (ExCBs) for the purpose of issuing IECEx Certificates to Ex Service Facilities providing selection of Ex equipment and design of Ex installations related services

IECEx OD 316-3 IECEx Certified Service Facilities Scheme – Part 3: Ex installation and initial inspection Assessment procedures for IECEx acceptance of Candidate Certification Bodies (ExCBs) for the purpose of issuing IECEx Certificates to Ex Service Facilities providing Ex installation and initial inspection service IECEx

IECEx OD 316-4 IECEx Certified Service Facilities Scheme – Part 4: Ex inspection and maintenance Assessment procedures for IECEx acceptance of Candidate Certification Bodies (ExCBs) for the purpose of issuing IECEx Certificates to Ex Service Facilities providing Ex installations related services

IECEx OD 316-5 IECEx Certified Service Facilities Scheme – Part 5: Repair, overhaul and reclamation of Ex equipment. Assessment procedures for IECEx acceptance of Candidate Certification Bodies (ExCBs) for the purpose of issuing IECEx Certificates to Ex Service Facilities involved in the repair, overhaul and reclamation of Ex equipment

ISO/IEC 17065 General requirements for bodies operating product certification systems Conformity assessment — Requirements for bodies certifying products, processes and services

IECEx TCD 60079-19, Technical Capability Document IEC 60079 -19: 2010, Explosive atmospheres - Parts 19: Equipment repair, overhaul and reclamation

IECEx OD 060 IECEx Guide for Business Continuity – Management of Extraordinary Circumstances or Events Affecting IECEx Certification Schemes and Activities

IEC 60079-17 Explosive atmospheres - Part 17: Electrical installations inspection and maintenance

IEC 60079-19 Explosive atmospheres – Part 19: Equipment repair, overhaul and reclamation

ExSFC Decision Sheets

NOTE The latest editions of the above documents were applied

* + 1. **Additional references applied for this assessment**

None

NOTE To be added by assessment team if applicable. For example, OD 060 if done as a remote assessment.

* 1. **ExCB persons interviewed**

|  |  |
| --- | --- |
| **Name** | **Position** |
| Matthew Fielding | Audit Team Manager |
| Nick Blake | Certification Officer |
| Rachel Milligan | Audits Operation Support Manager |

* 1. **National marks and certificates**

CSA maintain their Certification Trademark

* 1. **Standards accepted**

See clause 1.6 of this report

* 1. **National differences to IEC standards**

National differences to IEC standards are those for the <country/group> differences listed in the latest version of the IECEx System Bulletin.

* 1. **Organisation**
		1. **Names, titles and experience of the senior executives**

|  |  |  |
| --- | --- | --- |
| **Name** | **Title** | **Experience (years)** |
| Matthew Fielding | Audit Team Manager | 32 years |
| Nick Blake | Certification Officer | 10 years |
| Rachel Milligan | Audits Operation Support Manager | 4 years |

* + 1. **Name, title and experience of the quality management representative**

|  |  |  |
| --- | --- | --- |
| **Name** | **Title** | **Experience (years)** |
| Alan Myler | Quality Assurance Coordinator | 10 years |

* + 1. **Name and title of signatories for certification**

|  |  |  |
| --- | --- | --- |
| **Name** | **Title** | **Comments (years)** |
| Matthew Fielding | Audit Team Manager | 32 years |

* + 1. **Other employees in ExCB activity**

|  |  |  |
| --- | --- | --- |
| **Name** | **Title/responsibility** | **Experience in Ex (years)** |
| Wayne Thomas | Accreditation Manager, Europe & Asia | 18 years |
| Neil Jones | Technical Oversight Manager | 30 years |

* 1. **Organizational Structure**

See Annex A

<To be initially completed by body being assessed> with details possibly inserted in relevant Annexes.

* 1. **Indemnity insurance**

**CSA UK** have a general liability assurance by American International Group UK, AIG Insurance Company of Canada and Zurich Insurance up to 01 Mar 2022. These insurances include certification activity performed by the UK branch which include IECEx 03.

<To be initially completed by body being assessed>

* 1. **Resources**

**CSA UK** usetwo external auditors. They are both qualified auditors and have Ex experience including machines.

* 1. **Committees (such as governing or advisory boards)**

The composition and terms of reference of the Certification Impartiality Committee are given in DQD 353 dated 2021-08-19. The Ex Committee comprises representatives of manufacturers and users interests with no single interest predominating. The content of the procedures meets the requirements of ISO/IEC 17065 and the IECEx requirements.

<To be initially completed by body being assessed>

* 1. **Certification operations**
		1. **National approval/certification Methods**

**CSA UK** have only ISO 9001 certification issued by UKAS which include IAF 034 Services activity.

<To be initially completed by body being assessed>

* + 1. **Certification policy**

**CSA UK** have certification policy which is in line with IECEx.

NOTE Typically this may be a separate policy or included in the quality policy

* + 1. **Application for certification**

**CSA UK** have an application form for the Ex activities including IECEx 02 (QAR) and IECEx 03. This application form is sent the client under request.

<Document references to be initially completed by body being assessed>

* + 1. **Certification decision**

The certification decision may be made by Audits Team Manager (Ex QA or Ex Products) or Managing Director. This is written is in the “IECEx Service Facilities Certification Manual” Version No2 and dated 12 Oct 2021.

<Document references to be initially completed by body being assessed>

* + 1. **Suspension and cancellation of certificates**

**CSA UK** have a procedure for Suspension and cancellation of certificates which is referenced CSA Group Testing UK Quality Manual.

<Document references to be initially completed by body being assessed>

* 1. **Statistics**

<To be initially completed by body being assessed>

Detail experience in assessment and certification of Ex related Service Facilities for the Ex Protection under this application during the past 2 years:

| **Types of protection** | **ID** | **Comments** |
| --- | --- | --- |
| Flameproof Enclosure "d" | d | 24 |
| Increased Safety "e" | e | 23 |
| Type of Protection "n" | n | 22 |
| Intrinsic Safety "i" | i | 2 |
| Oil Filled "o" | o | 0 |
| Pressurisation "p" | p | 3 |
| Dusts to IEC 60079-31 "t" | t | 15 |
| Dusts to IEC 61241-1 "tD" | tD | 0 |
| Dusts to IEC 61241-1-1 "DIP" | DIP | 0 |
| Other (eg non-electrical) | Ot | 0 |

* 1. **National accreditation**

CSA Group Testing UK limited holds UKAS accreditation for both ISO 17065 and ISO 17021-1 relevant to this service (IAF/EA 34).

<To be initially completed by body being assessed>

* 1. **Assessment of service facilities and issue of FARs**

**CSA UK** have issued the FARs required to issue all the certificates listed in 5.12

<Document references to be initially completed by body being assessed>

NOTE Include information about how the ExCB applies the provisions of OD 060 if applicable

* 1. **Comments (including issues found during assessment)**

None

<Information should be included about the nature of the issues found together with an indication that they have been resolved to the satisfaction of the assessment team>

1. **IECEx Conformity Mark Licensing Scheme**
	1. **Assessment references**
2. IECEx 04 IECEx Certified Equipment Scheme covering equipment for use in explosive atmospheres – IECEx Conformity Mark Licensing Scheme – Rules
3. 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
4. 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

* 1. **Comments (including issues found during assessment)**

None

<Information should be included about the nature of the issues found together with an indication that they have been resolved>

# ExCB for IECEx Personnel Competence Scheme

CSA Group Testing UK Ltd is no longer an ExCB for IECEx Personnel Competence Scheme.

# Annexes

See Contents. (add, modify or delete annexes as necessary). Please note the following instructions for the IEC template:

1. Overall Organisation Chart



1. Accreditation Certificate for ISO/IEC 17025

CSA Group Testing UK Ltd



1. Accreditation Certificate for ISO/IEC 17065

CSA Group Testing UK Ltd

