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

**Title:** **Surveillance and Scope Extension Report for** **CSA Group Testing UK Ltd, an Accepted Certification Body, ExCB, and an Accepted Ex Testing Laboratory, (ExTL), within the IECEx Scheme 02, to include OD 290 Ed. 2.0 IEC 60079-33, ISO 19880-3, ISO 19880-5, ISO 17268 in their scope.**

**Introduction**

During the surveillance assessment of CSA Group Testing UK Ltd, an Accepted Certification Body, ExCB, and an Accepted Ex Testing Laboratory (ExTL) within the IECEx System, Equipment Scheme 02, an assessment was also conducted concerning a scope extension application to include the following Standards within their scope.

IECEx OD 290 2024 Ed.2

Harmonized procedures for IECEx certification of equipment, components and systems associated with the production, dispensing and use of gaseous hydrogen

IEC 60079-33:2012 Ed.1

Explosive atmospheres - Part 33: Equipment protection by special protection 's'

ISO 19880-3:2018 Ed.1

Gaseous hydrogen — Fuelling stations — Part 3: Valves

ISO 19880-5:2019 Ed.1

Gaseous hydrogen — Fuelling stations Part 5: Dispenser hoses and hose assemblies

ISO 17268:2020 Ed.3

Gaseous hydrogen land vehicle refuelling connection devices

Published (Ed.3, 2020)

***This document is hereby submitted for ExMC approval via correspondence using the IECEx on-line voting system. ExMC Members are requested to submit their vote via the IECEx On-line Ballot System by the closing date 20250507***

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

***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 assessment report for

CSA Group Testing UK Ltd

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

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# Assessment information

## Type of body covered by this assessment:

|  |  |
| --- | --- |
| 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~~ | [ ]  |
| ~~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  | [x]  |
| ~~Re-assessment~~  | [ ]  |
| Scope extension | [x]  |

## 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 |
| Wayne Thomas | Accreditations Manager  | wayne.thomas@csagroup.org  |
| Bryn Spencer | Principle Technical Lead | bryn.spencer@csagroup.org |

## Assessment information

### Members of the assessment team

|  |  |
| --- | --- |
| Name  | Role  |
| Marino Kelava | IECEx Lead Assessor |
| Christian Roder | IECEx Assessor |

### Place(s) of assessment

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

### Assessment date(s)

On-site assessment 19th to 21st November 2024

## Application information and background information on the assessment

This Assessment was conducted as Mid-term Assessment of Scheme 02 ExCB and ExTL. In addition, a scope extension to include-

 IECEx OD290, ISO 19880-3, ISO 19880-5, ISO 17268, ISO 80079-36, ISO 80079-37, IEC 60079-33 was requested and was part of this assessment.

Assessment was organised as on-site assessment including witness of testing in CSAE laboratory.

The assessment team was allocated, and the team agreed to address the request for scope extension as part of this assessment visit.

##  Scopes

### ExCB scope for equipment certification scheme

The scope for the ExCB is shown in Annex A.

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

NOTE 2 The list highlights any extension of scope in the list above for new standards or later editions of standards already in scope.

### ExTL scope

The ExTL scope is the same as for the ExCB.

### ATF Scope

Not relevant for this assessment.

### ExCB scope for Service Facilities Scheme

Not relevant for this assessment.

## ExCB scope for Conformity Mark Licensing Scheme

Not relevant for this assessment.

## ExCB scope for IECEx Personnel Competence Scheme

Not relevant for this assessment.

# Common information

## Legal entity of body

CSA Group Testing UK Limited is Private limited company, registered in UK under the business registration number 02888007, previously part of Sira group of companies subject to acquisition by CSA in 2009.

The document was checked 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 which provide financial stability and resources required for its operation.

## 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 hazardous locations and industrial equipment, environmental monitoring equipment, functional safety and management systems.

## Documentation

### Quality manual

CSA Group Testing UK Limited maintains a comprehensive top-level Quality Manual (QD-1001 for CB and STC for TL) covering the higher-level requirements of the scheme and below it there are additional manuals containing procedures covering all aspects of certification and testing operations that were audited as part of this assessment.

There are seven procedures specific to IECEx ExCB and ExTL (QD-1847 to QD-1853). The Quality manual as well related documents from different levels were reviewed during the assessment and found to meet the requirements of ISO/IEC 17025, ISO/IEC 17065 and the IECEx.

### Procedures

CSA Group Testing UK Limited has a comprehensive range of procedures covering all aspects of certification and testing operations. Where applicable, procedure related to the ExTL has with it an associated test sheet for completion by the staff.

Procedures most relevant for the operation under IECEx were reviewed during the assessment and found to meet the requirements of the IECEx.

### Work instructions

CSA Group Testing UK Limited has a comprehensive range of work instructions to define mainly the test methods that are used for testing Ex products. Some of these were reviewed during the assessment and found to meet the requirements of applicable Ex standards and the IECEx.

### Records (including test records where relevant)

All records are maintained and stored electronically. A procedure for records is in place (QD-1251) to comply with relevant accreditation schemes and government requirements. All records are uniquely identified, secured and stored in a way to ensure the reliability of the certification process and to maintain the confidentiality of information. A record retention period has been established. After it expires, the records are archived or destroyed. The procedure addresses the retention period for IECEx as well, which was found to be in compliance with IECEx OD207.

In practice it was advised critical records are stored indefinitely and so no destruction process for these records is in place.

The overall system was found to meet the requirements of the IECEx.

### Document change control

CSA Group Testing UK Limited has a defined procedure to control change of documents (QD 1232 for CB and STC quality manual section 2 for TL).

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.

The overall system was found to meet the requirements of the IECEx.

## Confidentiality

Top management commits to confidentiality and impartiality as stated in Quality Policy. All CSA Group personnel must complete several Business Integrity trainings, including anti-bribery, anti-corruption, privacy, confidentiality, impartiality, etc. This is addressed in QD-1001 procedure P105 Clause 5.2 and CSA Group impartiality and confidentiality control measures as detailed in QD-1264. 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.

The overall system was found to meet the requirements of the IECEx.

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

IECEx scheme rules for CSA Group Testing UK Limited Ex certification are available on their website <https://www.csagroup.org>. Other information is available on request.

## Recognitions and agreements

CSA Group Testing UK Limited has several agreements with organisations in other countries.

CSA Group Testing UK Limited 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 Group Testing UK Limited explained in STC quality manual Section 5.1 (test laboratory), QD-1001 Divisional Quality manual section 7.2 (ExCB) and QD-1127 Management system audit (testing laboratory and ExCB), including at technical level with the Ex operations.

CSA Group Testing UK Limited 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. Last internal audit for ExTL and ExCB to ISO/IEC 17025 and ISO/IEC 17065 was carried out on 16th to 18th April 2024. No non-conformities related to Ex were identified in report. The report was reviewed.

The system meets the requirements of ISO/IEC 17025, ISO/IEC 17065 and IECEx.

## Management review

There is a Management review system for CSA Group Testing UK Limited explained in STC quality manual Section 5.2 (test laboratory), QD-1001 Divisional Quality manual section 7.1 (ExCB) with QD-1680 (MR Meeting Minutes Template).

The latest management review meeting that took place on 16th May 2024 was reviewed. Representatives from the ExCB and the ExTL were present. It covered the operation of IECEx Certification Body and of the Testing Laboratory, including internal audits, corrective actions, accreditation audits, customer satisfaction and complaints data (including IECEx). The matters covered by the meeting also addressed the relevant requirements for ISO/IEC 17065 and ISO/IEC 17025.

The system meets the requirements of those standards and IECEx.

## Contracting, subcontracting and witness testing

### Contracting

CSA Group Testing UK Limited ExCB and ExTL do not use contracting. However, there is current contract with four external auditors (QAR). A register of all external contractors exists which is reviewed periodically. All external contractors are required to be under agreement covering amongst other matters, confidentiality, impartiality, and competence.

The system meets the requirements of ISO/IEC 17065 and IECEx.

### Subcontracting

CSA Group Testing UK Limited ExCB and ExTL do not use subcontracting.

### Off-site and Witness testing

Procedures for off-site and witness testing are covered in QD-1850, which includes reference to IECEx OD024 and QD-1135. It includes information for the updating of the current information in the IECEx OD024 Testing Register – Offsite and Witness Testing Agreements. A testing agreement in compliance with OD024 is available. Assessment Team confirmed CSA Group Testing UK Limited staff understanding of OD024 requirements and confirmed they are aware of procedure for the registration of the manufacturer or user test facility with the IECEx OD024 Testing Register.

This was found to be satisfactory, meeting the requirements of the IECEx.

## 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.

Procedure QD-1300 covers training. Training plans are made annually, supplemented on demand and checked by Management review. Records are kept of the trainings carried out. This details the staff and the training that they have undertaken, and particularly noted that training was arranged for a new staff. Qualification document was sighted and satisfactory.

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.

This was found to be satisfactory, meeting the requirements of the IECEx.

## Complaints and appeals (including appeals to IECEx)

Procedure QD-1130 covers complaints mechanism requirements of the ExCB and ExTL.

There were no complaints and appeals related to IECEx activities since last Re-assessment.

The system meets the requirements of ISO/IEC 17025, ISO/IEC 17065 and IECEx.

## Impartiality

There is an Impartiality Committee at CSA Group Testing UK Limited which meets twice a year.

STC Quality Manual clause 1.6(test laboratory), QD-1001 Divisional Quality manual section 5.1 (test laboratory and ExCB) and QD-1264 Impartiality Committee (test laboratory and ExCB) cover impartiality. Each staff member (internal and external) signed a commitment declaration regarding impartiality and confidentiality - ‘Associates Agreement’. Copies of signed declarations were seen.

CSA Group Testing UK Limited is an independent body with no activities or interests in the products that are tested, inspected, or certified. CSA Group Testing UK Limited has a public statement on its website to confirm its independence and impartiality.

Based on the documents STC Quality Manual clause 1.6 (test laboratory), QD-1001 Divisional Quality manual section 5.1 (test laboratory and ExCB) and QD-1264 Impartiality Committee (test laboratory and ExCB), different measures were discussed to safeguard impartiality. The risk analysis (FMEA) shows different threats that were identified. Self-interest, familiarity, external pressure are among the identified threats and measures have been implemented to mitigate the risks.

The mechanism for guarding the impartiality by representatives of interested parties is the Impartiality Committee - rules are contained in QD-1264. It was explained that Impartiality Committee has representatives from manufacturers, consumers, quality management experts, regulators, and trade association.

All staff, Impartiality Committee Members and the Management Board Members have signed regarding impartiality, honesty and confidentiality of their work. During the assessment, the list and several signed documents were checked.

The process meets the requirements of ISO/IEC 17065, ISO/IEC 17025 and IECEx.

## Active involvement in development of Decision Sheets

CSA Group Testing UK Limited’s staff participate actively in development of IECEx Scheme and in commenting on Decision Sheets.

## Special facts to be noted

It has to be noted that CSA Group Testing UK Limited 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 17065
* 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
* Information on contracting/subcontracting
* Assessors’ notes
* Other

## Recommendations

Based on the assessment performed on 19th to 21st November 2024, CSA Group Testing UK 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*

This is according to the scope of the standards listed in this document (including the extension of scope).

|  |  |
| --- | --- |
| Marino Kelava | Christian Roder |
| IECEx Lead Assessor | IECEx Assessor  |

Date: 13th January 2025

# 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. IECEx OD 280 IECEx Certified Equipment Scheme – Guide to Certification of Non-electrical Equipment and Protective Systems
2. IECEx OD 233 IECEx Certified Equipment Scheme - Assessment of Ex “s" Equipment
3. IECEx OD 290 IECEx Certified Equipment Scheme - Harmonized procedures for IECEx certification of equipment, components and systems associated with the production, dispensing and use of gaseous hydrogen

## ExCB persons interviewed

|  |  |
| --- | --- |
| Name | Position |
| Matthew Fielding | Senior Manager, Global Audits |
| Paul Young | Operations Manager |
| Edward Sutcliffe | Product Group Manager |
| Braxton Chong | Product Group Manager |

## Associated ExTL(s)

The ExTL is integral with the ExCB.

## Associated certification functions

CSA Group Testing UK Limited also operates as IECEx ExCB in Schemes 03 and 04.

## 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.

## Standards accepted

See Annex A.

## National differences to IEC standards

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

## Organisation

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

|  |  |  |
| --- | --- | --- |
| Name | Title | Experience (years) |
| Michelle Halliwell | Senior Director | 17 years |
| Paul Young | Operations Manager II | 13 years |
| Edward Sutcliffe | Product Group Manager | 8 years |
| Braxton Chong | Product Group Manager | 10 years |
| Declan Boyle | Technical Laboratory Manager | 10 years |
| Matthew Feilding | Senior Manager Global Audits | 35 years |
| Bryn Spencer | Principle Technical Lead | 40 years |

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

|  |  |  |
| --- | --- | --- |
| Name | Title | Experience (years) |
| Kalyan Rai | Specialist Quality Management | 20 + years |

### Name and title of signatories for certification

|  |  |  |
| --- | --- | --- |
| Name | Title | Comments |
| Michelle Halliwell | Senior Director | 17 years |

###

### Other employees in ExCB activity

|  |  |  |
| --- | --- | --- |
| Name | Title | Experience in Ex (years) |
| Brendan Allen | Certification Specialist | 20 + years |
| Christopher Brooks | Certifier III | 10 + years |
| Goutam Das | Technical Training Specialist | 10 + years |
| Ian Henderson | Certifier II | 10 + years |
| Ian Hulse | Certification Specialist | 20 + years |
| James Jarman | Certifier III | 10 + years |
| Jeremy Lim | Certifier II | 5 + years |
| Malcolm Munro | Certifier III | 10 + years |
| Matthew Brooks | Certification Specialist | 10 + years |
| Mersija Curkovic | Certification Specialist | 20 + years |
| Peter Lukacs | Certification Specialist | 10 + years |
| Priya Kalyanasundaram | Certification Specialist | 10 + years |
| Raymond Papiah | Certification Specialist | 10 + years |
| Reekesh Patel | Certifier II | 5 + years |
| Rob Oldfield | Certifier III | 5 + years |
| Rodel Rosales | Certifier II | 10 + years |
| Sarita Openshaw | Certifier III | 10 + years |
| Shane Harrison | Certifier III | 5 + years |
| Si Hills | Certifier III | 10 + years |
| Stewart Finch | Certification Specialist | 25 + years |
| Tom Smith | Certifier I | 5 years |

## Organizational structure

See Annex B and Annex C to this report.

## Indemnity insurance

CSA Group Testing UK Ltd holds insurance issued by American International Group UK (GENERAL LIABILITY INSURANCE reference PLB009730), AIG Insurance Company of Canada (UMBRELLA LIABILITY reference 800269328), Zurich Insurance (EMPLOYERS LIABILITY reference 054/1H01/AD741302/8) and Certain Underwriters at Lloyd’s (PROFESSIONAL LIABILITY INSURANCE reference GLOPR2402402) with appropriate insured amount. These are covered in one policy from 4th March 2024 which was reviewed, and its validity was found to be extended every year. The cover is worldwide and all certification activities which means that IECEx certification is included.

## Resources

The operation is well resourced with appropriate facilities, procedures and experienced staff.

CSA Group Testing UK Ltd is equipped with all the necessary resources for IECEx certification. There is an extensive range of procedures for support of the operation at CSA Group Testing UK Ltd. CSA Group Testing UK Ltd has systems in place to deal with absences.

The organization of work in ExCB was found meeting the requirements of ISO/IEC 17065 and IECEx.

## 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 9th May 2024. Next meeting scheduled for 20th November 2024.

The meeting agenda and minutes were viewed, and the topics covered found to meet the requirements of ISO/IEC 17065.

The system was found meeting the requirements of ISO/IEC 17065 and the IECEx requirements.

## Certification operations

### National approval/certification methods

CSA Group Testing UK Ltd is recognised under the National accreditation systems and schemes. It has procedures for compliance with IECEx Rules and Operational Documents. CSA Group Testing UK Ltd was EU Notified Body, No. 0518 for Directive 2014/34/EU before BREXIT and today is an Approved Body against the UK Regulation SI 2016/1107.

### Certification policy

There is a generic Certification quality policy in Quality Manual which demonstrates the aim to provide a comprehensive testing and certification organization with global competitiveness, including Ex testing and certification services.

The Certification policy was found meeting the requirements of ISO/IEC 17065 and the IECEx requirements.

### Application for certification

The complete certification process for delivering certificates is contained in the Quality Manual and in QD-1847. Application form is provided to customers by email following their request for Ex certification and testing services. The procedures were found to meet the requirements of IECEx.

### Certification decision

The certification decision is taken by the Technical Oversight Manager assisted by the Hawarden Certification Office, as described in QD-1851 Certificate Decision for IECEx, ATEX and UKCA. Only those managers who are authorized to turn a draft 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.

The procedure as well as examples of records of certification decision were reviewed and found to meet the requirements of ISO/IEC 17065 and IECEx Certified Equipment Scheme.

### Suspension and cancellation of certificates

The suspension of certificates rules is well defined in [QD-1313-WI-GLB-EN-Suspension Delisting and Cancellation of Certification](https://csagrporg.sharepoint.com/technicalintegrity/dqds/Shared%20Documents/QD-1313-WI-GLB-EN-Suspension%20Delisting%20and%20Cancellation%20of%20Certification%28Formerly%20called%20Suspension%2C%20Delisting%20and%20Cancellation%20of%20Certification%29.docx?web=1) and there is specific reference as to how this relates to the IECEx System.

The system was found meeting the requirements of ISO/IEC 17065 and 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 |
| 2023 | 2024 |
| IEC 60079-1 | Equipment protection by flameproof enclosures "d" | 60 | 68 | 128 |
| IEC 60079-2 | Equipment protection by pressurized enclosure "p" | 2 | 6 | 8 |
| IEC 60079-5 | Equipment protection by powder filling "q" | 0 | 0 | 0 |
| IEC 60079-6 | Equipment protection by liquid immersion "o" | 0 | 0 | 0 |
| IEC 60079-7 | Equipment protection by increased safety "e" | 61 | 13 | 74 |
| IEC 60079-11 | Equipment protection by intrinsic safety "i" | 67 | 47 | 114 |
| IEC 60079-13 | Equipment protection by pressurized room "p" and artificially ventilated room "v" | 0 | 0 | 0 |
| IEC 60079-15 | Equipment protection by type of protection "n" | 14 | 5 | 19 |
| IEC 60079-18 | Equipment protection by encapsulation "m" | 15 | 3 | 18 |
| IEC 60079-25 | Intrinsically safe electrical systems | 0 | 0 | 0 |
| IEC 60079-26 | Equipment with Separation Elements or combined Levels of Protection | 6 | 4 | 10 |
| IEC 60079-28 | Protection of equipment and transmission systems using optical radiation | 9 | 1 | 10 |
| IEC 60079-29-1 | Gas detectors - Performance requirements of detectors for flammable gases | 0 | 0 | 0\* |
| IEC 60079-30-1 /IEC/IEEE 60079-30-1 | Electrical resistance trace heating - General and testing requirements | 2 | 1 | 3 |
| IEC 60079-31 | Equipment dust ignition protection by enclosure "t" | 36 | 14 | 50 |
| IEC 60079-35-1 | Caplights for use in mines susceptible to firedamp - General requirements - Construction and testing in relation to the risk of explosion | 0 | 0 | 0 |
| IEC TS 60079-40 | Requirements for process sealing between flammable process fluids and electrical systems | 0 | 1 | 1 |
| IEC TS 60079-46 | Equipment assemblies | 0 | 1 | 1 |
| ISO 80079-36 | Non-electrical equipment for explosive atmospheres — Basic method and requirements | 2 | 3 | 5 |
| ISO 80079-37 | Non-electrical equipment for explosive atmospheres — Non-electrical type of protection constructional safety ''c'', control of ignition sources ''b'', liquid immersion ''k'' | 2 | 3 | 5 |

NOTE Above include certificates to IEC 60079-0 unless otherwise shown. Results for 2024 include certificates issued between 1st April and 20th November 2024.

\*CSA UK performed comprehensive test project against IEC 60079-29-1, but no certificate was issued, only test reports.

## National accreditation

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

CSA Group Testing UK Ltd holds a national accreditation for product certification body according to ISO/IEC 17065 from UKAS, a member of International Accreditation Forum (IAF).

The current accreditation certificate for the product certification body is attached in Annex D of this report. It is noted that the accreditation scope covers all the standards listed in Annex A of this report, except IEC 60079-33 and specific Hydrogen related standards (ISO 19880 series and EN ISO 17268), which are part of requested scope extension. Until these Standards are included CSA will be subject to an annual Surveillance.

It is planned to include those at next accreditation audit. The accreditation audit was done on 3rd to 12th June 2024.

The results of the last ISO/IEC 17065 audit were reviewed, and it was verified that all findings were resolved to the satisfaction of UKAS.

Assessment of ExCB capability to operate in accordance with IEC standards for the applied scope of IECEx related Ex equipment certification requested was part of this Assessment.

## Assessment of manufacturers and issue of QARs

The procedures for assessment of manufacturers are covered in QD-1853. This refers to OD025 and includes provisions when OD060 is applicable addressing the approaches used for selecting auditors and experts in accordance with IECEx OD026.

The list of out-of-date QARs was reviewed and found to be satisfactory after actions done by ExCB.

The above procedure addresses the initial issue of QARs or the review of other ExCB QARs for the purpose of issuing certificates, as well as the maintenance process in accordance with OD025 and the need to ensure that all certificates on the website are linked to current QARs.

The system complies with IECEx requirements.

## Comments (including issues found during assessment)

CSA Group Testing UK Ltd has the necessary staff and quality system in place for their scope as an ExCB. Minor issues were found which included:

• management of certificates linked to out-of-date QARs

• implementation of recent updates and new IECEx OD’s.

All issues were revised to the satisfaction of the assessment team and now meet the requirements of the IECEx. Details are contained in Site Assessment Report.

#  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. IECEx OD 280 IECEx Certified Equipment Scheme – Guide to Certification of Non-electrical Equipment and Protective Systems
2. IECEx OD 233 IECEx Certified Equipment Scheme - Assessment of Ex “s" Equipment
3. IECEx OD 290 IECEx Certified Equipment Scheme - Harmonized procedures for IECEx certification of equipment, components and systems associated with the production, dispensing and use of gaseous hydrogen

## ExTL persons interviewed

|  |  |
| --- | --- |
| Name | Position |
| Declan Boyle | Technical Laboratory Manager |
| Iker Amuchastegui | Team Lead |
| Mersija Curkovic | Certification Specialist |
| Stewart Finch | Certification Specialist |
| Bryn Spencer | Principle Technical Lead |
| Zach Gilman | Technician II |
| Ian Carrington | Technician III |

## Associated ExCB(s)

The ExCB is integral with the ExTL.

## Organisation

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

|  |  |  |
| --- | --- | --- |
| Name | Title | Experience (years) |
| Paul Young | Operations Manager | 13 years |
| Declan Boyle | Technical Laboratory Manager | 10 years |
| Iker Amuchastegui | Team Lead | 6 years |

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

|  |  |  |
| --- | --- | --- |
| Name | Title | Experience (years) |
| Kalyan Rai | Specialist Quality Management | 20 + years |

### Other employees in ExTL activity

|  |  |  |
| --- | --- | --- |
| Name | Title/responsibility | Experience in Ex (years) |
| Ian Carrington | Technician III | 10 years |
| Andrew Keenan | Senior Technician | 15 + years |
| Zach Gilman | Technician II | 10 years |
| Chris Brooks | Technician II | 10 years |
| Peter Lukacs | Technician II | 10 years |
| Aaron Butler | Technician I | trainee |
| Braxton Chong | Product Group Manager | 10 years |
| Brendan Allen | Certification specialist | 20+ years |
| Bryn Spencer | Principle technical lead | 40 years |
| Christopher Brooks | Certifier III | 10 years |
| Goutam Das | Technical training specialist | 10 years |
| Ian Henderson | Certifier II | 10 years |
| Ian Hulse | Certification Specialist  | 20 years |
| James Jarman | Certifier III | 10 years |
| Jeremy Lim | Certifier II | 5 years |
| Jonathan Pym | Certifier III | 10 years |
| Malcolm Munro | Team lead | 10 years |
| Matthew Brooks | Certification Specialist | 20 years |
| Mersija Curkovic | Certification Specialist | 10 years |
| Peter Lukacs | Certification Specialist | 10 years |
| Priya Kalyanasundaram | Certification Specialist | 10 years |
| Raymond Papiah | Certifier II | 5 years |
| Reekesh Patel | Team lead | 5 years |
| Rob Oldfield | Certifier II | 10 years |
| Rodel Rosales | Certifier III | 10 years |
| Sarita Openshaw | Certifier III | 5 years |
| Shane Harrison | Certifier III | 10 years |
| Si Hills | Certification Specialist | 25 years |
| Stewart Finch | Certifier I | 5 years |
| Tom Smith | Technician III | 10 years |

##

## Organizational structure

See Annex B and Annex C.

## Resources

CSA Group Testing UK Ltd has well equipped testing operation premises. There is an extensive range of procedures for support of the operation at ExTL. All testing equipment, where range significantly affects accuracy and the reliability of the test, is calibrated. The equipment is subject to ongoing monitoring for due calibration and control before each use. Standards and reference materials are subject to ongoing checking in accordance with established procedures. Laboratory maintains lists of equipment, which include, among others: name and type of device, identification number, place of use. In addition, each measuring and testing device has a sticker with information about the status of calibration.

During the assessment a detailed review of the process to deal with independence and separation between testing and certification decisions was undertaken noting that Staff involved in testing of a project cannot be involved in the certification decision.

The organization of work in ExTL was found meeting the requirements of ISO/IEC 17025 and IECEx.

## 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):

|  |  |  |  |
| --- | --- | --- | --- |
| Standard numbers | Type of protection or other identifying information | Number of issued reports (ExTRs) (for last 2 years) | Total |
|  |  |
|  |  |  |  |  |

Not completed in accordance with NOTE 3 below (ExTL is integral with the ExCB).

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 (this may include adding additional years to the table).

NOTE 3 Above table does not need to be completed for accepted ExTLs where the body is integral with the ExCB

## National accreditation

Accreditation has been granted for the testing by UKAS, a member of ILAC. The full IECEx scope is covered by the UKAS accreditation.

It is noted that the accreditation scope covers all the standards listed in Annex A of this report, except IEC 60079-33 and specific Hydrogen related standards (ISO 19880 series and EN ISO 17268). It is planned to include those at next accreditation audit. Until these Standards are included CSA will be subject to an annual Surveillance. The accreditation audit was completed on 3rd July 2024. The results of the last ISO/IEC 17025 audit were reviewed and it was verified that all findings resolved to the satisfaction of UKAS.

Assessment of ExTL capability to continuously operate in accordance with IEC standards for the requested scope of IECEx related Ex equipment testing was part of this assessment.

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

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

## Calibration

All equipment requiring calibration is calibrated by external accredited calibration service providers. The calibration schedule for equipment is maintained and controlled via the database like intranet system. Calibration is then organised for all equipment that is about to fall due for calibration.

The status of confirmation of metrological control of a given equipment is recorded in the equipment digital file and confirmed by a sticker on the equipment.

All equipment used for witnessed testing was found to be in calibration.

The system for calibration of test equipment is addressed in associated ExTL procedures which were revieved during the assessment and found to comply with ISO/IEC 17025 and IECEx requirements.

##  Tests witnessed during the assessment visit

The following tests were witnessed during the assessment visit:

|  |  |  |  |
| --- | --- | --- | --- |
| Standard and edition | Clause number | Test | Comments |
| ISO 80079-36 Ed.1 | cl. 8.2.1 | Determination of the maximum surface temperature | Testing performed competently. |
| ISO 80079-36 Ed.1 | cl. 8.4.9 | Additional tests of non-metallic parts. Thermal shock test | Testing performed competently. |
| ISO 80079-37 Ed.1 | cl. 8.2.2 | Function and accuracy check of the ignition protection system | Testing performed competently. |
| ISO 80079-37 Ed.1 | Annex BB.1 | "Dry run" type test for lubricated sealing arrangements | Testing performed competently. |
| OD 290 Ed.2 | A2.7 | Electrostatic discharge test | Testing performed competently. |
| OD 290 Ed.2 | A2.10 | Cabinet test for dispensers designed for outdoor use (IP test) | Testing performed competently. |
| OD 290 Ed.2 | A2.11 | Marking and Label Adhesion and legibility test | Testing performed competently. |
| ISO 19880-3 Ed.1 | cl. 9.1.2 | Electrical conductivity test | Testing performed competently. |
| ISO 19880-5 Ed.1 | cl. 7.4 | Electrical conductivity test | Testing performed competently. |
| ISO 19880-5 Ed.1 | cl. 7.18 | Electrical properties of the lining material | Testing performed competently. |
| ISO 17268 Ed.3 | cl. 7.15 | Electrical resistance | Testing performed competently. |

All results provided evidence of staff competence in performing above testing.

## Participation in IECEx Proficiency Testing Programs

Program: PTB Ex PT Scheme

|  |  |  |
| --- | --- | --- |
| Year(s) of participation | IECEx Proficiency Testing program | General information about results |
| 2023 | Program "Connection and Junction Boxes" (Test Round 2023)  | Satisfactory (exact information contained in the report) |
| 2023 | Program "Explosion Pressure" (Test Round 2023)  | Satisfactory (exact information contained in the report) |
| 2021 | [Program "Flameproof Joints" (Test Round 2021)](https://www.ex-proficiency-testing.ptb.de/de/programs/fj2021/) | Satisfactory (exact information contained in the report) |
| 2021 | [Program "Small Component Temperature" (Test Round 2021)](https://www.ex-proficiency-testing.ptb.de/de/programs/sct2021/) | Satisfactory (exact information contained in the report) |
| 2019 | [Program "Tests of Enclosures" (Test Round 2019)](https://www.ex-proficiency-testing.ptb.de/de/programs/program-tests-of-enclosures-2019/) | Satisfactory (exact information contained in the report) |
| 2019 | [Program "Battery Testing" (Test Round 2019)](https://www.ex-proficiency-testing.ptb.de/de/programs/program-battery-testing-2019/) | Satisfactory (exact information contained in the report) |

CSA Group Testing UK Ltd also successfully participated in earlier PTB PTPs (before 2019), results have been checked and reported in previous Assessment Report.

## Comments (including issues found during assessment)

CSA Group Testing UK Ltd has the necessary staff and quality system in place for their scope as an ExTL. Few issues were identified during the assessment which were noted as potentially influential to the performance of testing and assessment. All issues were resolved to the satisfaction of the assessment team and now meet the requirements of the IECEx. Details are contained in Site Assessment Report.

# ATF for IECEx Certified Equipment Scheme

Not relevant for this assessment.

# ExCB for Certified Service Facilities Scheme

Not relevant for this assessment.

# IECEx Conformity Mark Licensing Scheme

Not relevant for this assessment.

# ExCB for IECEx Personnel Competence Scheme

Not relevant for this assessment.

# Annexes

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

NOTE When creating a new annex **DO NOT** type the word Annex, just create a new empty page and then apply the styles ANNEXtitle to the first (empty) line. The word "Annex" followed by the letter "A" or "B", etc will automatically appear.

**TIP:** When typing annex titles, separate the lines of the title by "shift+return"

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

| Number  | Title  | Comments |
| --- | --- | --- |
| IEC 60079-0 Edition 7.0 | Explosive atmospheres - Part 0: Equipment - General requirements  | Already in the scope |
| IEC 60079-1Edition 7.0 | Explosive atmospheres - Part 1: Equipment protection by flameproofenclosures “d” | Already in the scope |
| IEC 60079-2 Edition 6.0 | Explosive atmospheres - Part 2: Equipment protection by pressurized enclosure “p’ | Already in the scope |
| IEC 60079-5Edition 4.1 | Explosive atmospheres - Part 5: Equipment protection by powder filling “q” | Already in the scope |
| IEC 60079-6Edition 4.1 | Explosive atmospheres - Part 6: Equipment protection by liquid immersion “o” | Already in the scope |
| IEC 60079-7Edition 5.1 | Explosive atmospheres - Part 7: Equipment protection by increasedsafety "e" | Already in the scope |
| IEC 60079-11Edition 7.0 | Explosive atmospheres - Part 11: Equipment protection by intrinsic safety “i” | Already in the scope |
| IEC 60079-13Edition 2.0 | Explosive atmospheres - Part 13: Equipment protection by pressurized room "p" and artificially ventilated room "v" | Already in the scope |
| IEC 60079-15Edition 5.0 | Explosive atmospheres – Part 15: Equipment protection by type of protection "n" | Already in the scope |
| IEC 60079-18Edition 4.1 | Explosive atmospheres – Part 18: Equipment protection by encapsulation “m” | Already in the scope |
| IEC 60079-25Edition 3.0 | Explosive atmospheres – Part 25: Intrinsically safe electrical systems | Already in the scope |
| IEC 60079-26Edition 4.0 | Explosive atmospheres - Part 26: Equipment with Separation Elements or combined Levels of Protection | Already in the scope |
| IEC 60079-28Edition 2.0 | Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation  | Already in the scope |
| IEC 60079-29-1Edition 2.1 | Explosive atmospheres - Part 29-1: Gas detectors – Performance requirements of detectors for flammable gases | Already in the scope |
| IEC 60079-29-4Edition 1.0 | Explosive Atmospheres – Part 29-4: Gas detectors - Performance requirements of open path detectors for flammable gases | NOT IN THE SCOPE |
| IEC/IEEE 60079-30-1Edition 1.0 | Explosive atmospheres – Part 30-1: Electrical resistance trace heating – General and testing requirements | Already in the scope |
| IEC 60079-31Edition 3.0 | Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t" | Already in the scope |
| IEC TS 60079-32-1Edition 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 THE SCOPE |
| IEC 60079-32-2Edition 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 THE SCOPE |
| IEC 60079-33Edition 1.0 | Explosive atmospheres – Part 33: Equipment protection by special protection “s” | To be added to the scope (scope extension) |
| 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 | Already in the 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 | NOT IN THE SCOPE |
| IS0 80079-36Edition 1.0 | Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres – Basic method and requirements | To be added to the scope of ExTL (scope extension) |
| ISO 80079-37Edition 1.0 | Explosive atmospheres - Part 37: Non-electrical equipment for explosive atmospheres – Non electrical type of protection constructional safety ”c” control of ignition source ”b”, liquid immersion ”k” | To be added to the scope of ExTL (scope extension) |
| ISO/IEC 80079-49Edition 1.0 | Explosive atmospheres - Part 49: Flame arresters – Performance requirements, test methods and limits for use  | NOT IN THE SCOPE |
| IEC TS 60079-39Edition 1.0 | Explosive atmospheres - Part 39: Intrinsically safe systems with electronically controlled spark duration limitation  | NOT IN THE SCOPE |
| IEC TS 60079-40Edition 1.0 | Explosive atmospheres - Part 40: Requirements for process sealing between flammable process fluids and electrical systems | Already in the scope |
| IEC TS 60079-42Edition 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 THE SCOPE |
| IEC TS 60079-46Edition 1.0 | Explosive atmospheres – Part 46 - Equipment assemblies | Already in the scope |
| IEC 62784Edition 1.1 | Vacuum cleaners and dust extractors providing equipment protection level Dc for the collection of combustible dusts - Particular requirements | NOT IN THE SCOPE |
| IEC 62990Edition 1.0 | Workplace Atmospheres – Part 1: Gas detectors – Performance requirements of detector for toxic gases | NOT IN THE SCOPE |
| IECEx OD290Edition 1.0 | Harmonized procedures for IECEx certification of equipment, components and systems associated with the production, dispensing and use of gaseous hydrogen  | To be added to the scope (scope extension) |
| ISO 19880-3 | Gaseous hydrogen-fuelling stations - Valves | To be added to the scope (scope extension) |
| ISO 19880-5 | Gaseous hydrogen-fuelling stations – Dispenser hoses and hose assemblies | To be added to the scope (scope extension) |
| EN ISO 17268 | Gaseous hydrogen land vehicle refuelling connection devices | To be added to the scope (scope extension) |

* 1. Superseded standards

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

| Number  | Title  | Comments |
| --- | --- | --- |
| IEC 60079-27Edition 2.0 | Explosive atmospheres – Part 27: Fieldbus intrinsically safe concept (FISCO) | Already in the scope |
| IEC 61241-0Edition 1.0  | Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements | Already in the scope |
| IEC 61241-1 Edition 1.0 | Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosure “tD” | Already in the scope |
| IEC 61241-4 Edition 1.0 | Electrical apparatus for use in the presence of combustible dust - Part 4: Protection by pressurization "pD"  | Already in the scope |
| IEC 61241-11Edition 1.0 | Electrical apparatus for use in the presence of combustible dust – Part 11: Protection by intrinsic safety 'iD' | Already in the scope |
| IEC 61241-18Edition 1.0  | Electrical apparatus for use in the presence of combustible dust - Part 18: Protection by encapsulation "mD" | Already in the scope |
| 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 | Already in the scope |
| IEC 62013-2 Edition 2.0 | Caplights for use in mines susceptible to firedamp - Part 2: Performance and other safety-related matters | NOT IN THE SCOPE |
| ISO 16852Edition 2 | Flame arrestors - Performance requirements, test methods and limits for use | NOT IN THE SCOPE |
| IECEx DS2015/001A2015 10 09 | Equipment assemblies | NOT IN THE SCOPE |

1. Overall Organisation Chart



1. Organisation Chart of ExCB & ExTL



1. Accreditation Certificate for ISO/IEC 17065



1. Accreditation Certificate for ISO/IEC 17025

