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

**TITLE: Re-assessment and Scope Extension Report for the continued acceptance of** **ExVeritas Limited (an Accepted Certification Body (ExCB) in the IECEx Equipment Scheme 02, an Accepted Ex Testing Laboratory (ExTL) within the Equipment Scheme 02 as well as an Accepted ExCB for IECEx Certified Service Facilities Scheme, 03.**

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

**INTRODUCTION**

In accordance with the 5 year re-assessment plan for the surveillance and monitoring of bodies within the IECEx System, the following document contains the IECEx Re-assessment and Scope Extension Report for the continued acceptance of ExVeritas Limited an Accepted Certification Body (ExCB), in the IECEx Equipment Scheme 02, an Accepted Ex Testing Laboratory (ExTL) within the Equipment Scheme 02 as well as an Accepted ExCB for IECEx Certified Service Facilities Scheme, 03

During the re-assessment the IECEx Assessment Team took the opportunity to also assess, ExVeritas Limited, equipment and competence to undertake testing and certification to the Standards –

|  |  |  |
| --- | --- | --- |
| IEC 60079-33  Edition 1.0 | Explosive atmospheres – Part 33: Equipment protection by special protection “s” | Scope Extension |

The report is hereby submitted for voting by the ExMC.

***This document is hereby submitted for ExMC approval via correspondence using the IECEx on-line voting system.  ExMC Members are requested to submit their vote via the IECEx On-line*** [***Ballot System***](https://www.iecex.com/ballot) ***by the closing date 2021 05 21***

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

***Chris Agius***

**IECEx Secretariat**

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

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 System

Operational Document IECEx OD 501 for the Personnel Competence Scheme

IECEx ExCB/ExTL/ATF assessment report for ExVeritas Limited

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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# Assessment information

## Type of body covered by this assessment:

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

NOTE 1 ExCB - IECEx Certification Body

NOTE 2 ExTL - IECEx Testing Laboratory

NOTE 3 ATF - Additional Testing Facility

## Type of assessment:

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

## Details of body

### Country

United Kingdom

### Name of body

ExVeritas Limited

### Name and title of nominated principal contact

|  |  |  |
| --- | --- | --- |
| Name | Title | E-mail address |
| Sean Clarke | Managing Director | s.clarke@exveritas.com |

## Assessment information

### Members of the assessment team

|  |  |
| --- | --- |
| Name | Role |
| **Bernard PIQUETTE** | IECEx Lead Assessor |

### Place(s) of assessment: Assessment was done remotely for the following location.

|  |  |
| --- | --- |
| ExVeritas Limited | Unit 16-18, Abenbury Way. Wrexham Industrial Estate, Wrexham, LL13 9UZ, UK |

### Assessment date(s)

In light of the travel restrictions associated with COVID-19, this assessment was conducted as a remote assessment under the provisions of new IECEx OD 060. The assessment plan was adjusted to facilitate a remote assessment with the following key points to be noted:

* Full access to ExVeritas testing and certification procedures, along with details of test equipment and facilities sufficient to enable the completion of the TCD
* Interviews with testing staff were conducted
* Provisions were made for “live” video streaming to witness tests

The assessment was conducted over the period 24th – 27th November 2020 (4 days)

## Application information and background information on the assessment

Remote assessment conducted under the provisions of IECEx OD 060, as agreed with the Secretariat

## Scopes

### ExCB scope for equipment certification scheme

The scope for the ExCB is shown in Annex A. The scope extension include :

IEC 60079-33 Edition 1.0 Explosive atmospheres – Part 33: Equipment protection by special protection “s”

### ExTL scope

The ExTL scope is the same as for the ExCB.

### ExCB scope for Service Facilities Scheme

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

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

# Common information

## Legal entity of body

The company is legally registered as Ex Veritas Limited but the company trades as ExVeritas which is a registered trade mark

The company is registered in England as a Company Limited by Guarantee No. 05600913.

ExVeritas® is a legally registered Trade Mark for Certification, Test and Assessment. TMR - UK00003015985.

## Financial support

ExVeritas was formed by Sean Clarke and Stephen D’Henin in 2010 and is a UK Limited Company with a 50/50 shareholding.

The operation is self-supporting with all investment in the company coming from the profits of the company.

## History

ExVeritas Limited is a certification body and technical service provider in explosive atmosphere safety based in the UK (Wales). ExVeritas have been issuing certification since 2010 (10 years) and have been IECEx accredited for 5 years.

ExVeritas is an IECEx Certification Body and an IECEx Testing Laboratory with full UKAS Accreditation. ExVeritas UK has 15 Certification Engineers with an ‘average’ of over 15 years Ex Experience each. ExVeritas run bespoke ‘Certification management System’ (CMS) which was designed and owned by ExVeritas. It is cloud based and manages customers, applications, quotes, projects and certificates and is available with a customer view and a staff view.

ExVeritas Limited carry 10 Million (UK GBP) Product Liability and Employer Insurance and 2 Million (UK GBP) Professional Indemnity Insurance.

Accreditation

* UKCA National certification Body 2585 (UKCA)
* UK IECEx Certification Body (Products and Service Centres) and IECEx Test Laboratory
* Four separate UKAS accreditation for Product Certification, Quality System Certification, Test Laboratory and Inspection Body (No. 8613)
* Ex Training (CompEx Licensed) Centres in the UK, Ireland), Malta and Dallas
* ExVeritas Limited is a U.S. Coast Guard accepted independent laboratory for testing electrical equipment for hazardous locations.

ExVeritas also has Technical Associates in subsidiary businesses in Denmark (ExVeritas ApS), the USA (ExVeritas Inc) and Brazil (PTL)

## Documentation

### Quality manual

The top level quality document is the General Quality Manual QM-001 and at the time of the assessment this was at Issue V4 dated 01/04/2019. It incorporates the quality policy, the customer service policy, and the health and safety policy. Sitting under it are the following manuals:

QM-001.1 – Laboratory Quality Manual (V6 01/04/2019)

QM-001.2 – Certification Body Quality Manual (V8 08/05/2017)

QM-001.3 – Inspection Body Quality Manual (not looked at for this assessment)

QM-001.4 – Training Body Quality Manual (not looked at for this assessment)

The General Quality Manual and relevant associated quality manuals were checked and found to meet the requirements of the IECEx System.

### Procedures

The above manuals are supported by detailed quality procedures, forms and work instructions.

For the Certification Body the procedures are numbered from QP-CB-001 through to QP-CB-0026

For the Test Lab the procedures are numbered from QP-001 through to QP-019

The documentation was checked and found to meet the IECEx System requirements.

### Work instructions

There are a number of work instructions that are relevant for the ExCB. For testing there is a comprehensive range of test methods and test forms. The test forms cover all work done for Ex testing. They were reviewed and found to meet IECEx requirements

### Records (including test records where relevant)

Control of records is addressed in Quality Procedure for Control of Records QP-CB-012 V1.

Test records are kept in hard copy but are also scanned and retained in electronic form. The electronic copy becomes the official copy.

Electronic records are maintained on a SharePoint location and are backed up real time in two other locations. One of these backups is done through the use of a redundant RAID enabled network drive and are protected against unauthorized access and amendment through the use of a secure network and document passwords (as appropriate). The procedures state that the retention period is specified for each record on EIR-013. At present EIR-013 shows all records as being stored 'Permanently'.

The records storage system was found to meet the requirements of IECEx.

### Document change control

Record EIR-013 – Records and Documents List contains all the records controlled through the total management system.

The ExCB procedure covering document change control is Quality Procedure for Documents Control QP-CB-011 V 1 and for the control of DATA the procedure is QP-003 v2.

For the ExTL document change control is addressed in Clause 7.3 of the Laboratory Quality Manual.

Both systems have the same approach to document change control.

For both ExCB and ExTL EFO-009 addresses system change notification and makes provision for employees to propose changes to quality documents.

Only the electronic copy of the quality documents is the controlled copy and each document contains a statement that printed copies are not controlled documents

The document change control system meets the requirements of IECEx.

## Confidentiality

Confidentiality for the ExCB is addressed in the Certification Body Quality Manual Clause 7.1.5. Confidentiality, and in procedure QP-CB-03 - Confidentiality.

All new employees commit to confidentiality when they sign their terms and conditions of employment. An example of such a signed agreement was viewed. In addition, all employees sign a ‘Project Acceptance Form’ on CMS detailing Confidentiality and Impartiality.

The Laboratory Quality Manual also addresses confidentiality and conflict of interest in Section 7.

For the Governing Body, member body commit to confidentiality as part of their role on that body.

The above was found to meet the requirements for IECEx.

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

ExVeritas have produced various materials to publicise the operation such as a wall chart with ATEX and IEC guidance. They have a website on which a lot of information can be found.

## Recognitions and agreements

ExVeritas is :

* an approval body for the UKCA Mark.
* a IECEx Certification Body & Test Laboratory

There is an agreement with MET Labs in the USA for North American listing.

## Internal audit

Requirements for internal audit are addressed in the Certification Body Quality Manual Clause 7.5.6. Internal audits are in procedure QP-CB-013 – Internal Audit. The audit plan is addressed in EIR-018b-CB Internal Audit Plan.

In 2019, internal audits took place in the ExCB and in the ExTL. The ExTL internal audit include witnessing of tests. All issues raised were resolved.

The internal audits reports have been reviewed and found complying the requirements of IECEx.

## Management review

Requirements for management review are addressed in the Certification Body Quality Manual Clause 7.5.5 and in procedure QP-CB-015 – Management Review.

Meetings for management review of the ExCB are held separately to the meeting for the ExTL.

The last management meeting for the ExCB was held on 23 April 2020 and the report was reviewed by the assessment team. The meeting was attended by the top three managers of ExVeritas. The management meeting for the ExTL was held on 13 February 2020.

The management review was found to meet the requirements for IECEx.

## Contracting, subcontracting and witness testing

### Contracting

Subcontracting of personnel is addressed by the sections 7.3.2.2.2 and 7.3.2.2.3 of the Certification Body Quality Manual.

ExVeritas use some external subcontracted specialists. These specialists are referenced in the competence matrix of ExVeritas and treated as the personnel of ExVeritas

All sub-contractor or freelance auditors are required to sign a contract and the FO-CB-51 - Quality Audit Contractor\_Project Acceptance Form.

### Subcontracting

Subcontracting of testing is addressed by the Laboratory Quality System, according to the section 7.4.6 of the Laboratory Quality Manual.

All subcontractors are identified in a data base of subcontractors and suppliers.

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

|  |  |  |
| --- | --- | --- |
| Standard | Clause | Test |
| IEC 60079-0 | 26.10 | Resistance to UV light |

More details, including bodies to whom tests will be subcontracted, details of accreditation of those bodies and details of how the subcontracted bodies are checked, are included in the site assessment report.

### Off-site and Witness testing

Some tests are done by witness testing at manufacturers' premises according to OD024.

There is a procedure for offsite and witness testing QP-017 that addresses the requirements of OD024, including the need for a signed agreement, the maintenance of a register and the need to notify IECEx.

Documents and reports have been reviewed and found complying the IECEx requirements.

## Training and competence

Requirements for training and competence are addressed in the Certification Body Quality Manual Clause 7.3.1 and procedure QP-CB-007 – Competence Management. Personnel competence is shown in the record EIR-012.

Competence matrix take into account IEC 60079-33.

A copy of the matrix is included in the site assessment report.

The system clearly indicates the competence of ExCB and ExTL staff, and their competency was verified by the assessment team as meeting the requirements of IECEx.

## Complaints and appeals (including appeals to IECEx)

Requirements for complaints and appeals are addressed in the Certification Body Quality Manual Clause 7.4.13 Complaints and appeals and in procedure QP-CB-010 – Customers Complaints, Appeals and Feedback.

ExVeritas includes information about their customer's right of appeal to IECEx in their terms and conditions, and on their website.

The system was found to meet the requirements of IECEx.

## Impartiality

Requirements for Impartiality are addressed in the Certification Body Quality Manual Clause 7.1.2 Management of Impartiality and in procedure QP-CB-002 – Management of Impartiality.

The system was found to meet the requirements of IECEx.

## Active involvement in development of Decision Sheets

ExVeritas contribute to the development of Decision Sheet through his participation to the UK TC31 Committee. Evidence of his contribution have been provided during the assessment.

## Special facts to be noted

None

## 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 24th – 27th November 2020, ExVeritas Limited is recommended for continued acceptance in the IECEx scheme as:

* An ExCB in the IECEx Certified Equipment Scheme
* An ExTL in the IECEx Certified Equipment Scheme
* An ExCB in the IECEx Certified Service Facilities Scheme

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

|  |
| --- |
| Bernard PIQUETTE |
| IECEx Lead Assessor |

Date: 2021 03 31

**3 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)
12. OD 233 IECEx Certified Equipment Scheme - Assessment of Ex “s" Equipmen

### Additional references applied for this assessment

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

## ExCB persons interviewed

|  |  |
| --- | --- |
| Name | Position |
| Sean Clarke | Managing Director |
| Diego Oliveira | Section Manager - Intrinsic Safety Certification |
| Phil Jones | Section Manager – Product Certification |

## Associated ExTL(s)

The ExVeritas ExTL is integral with the ExCB.

## Associated certification functions

ExVeritas performs Compex training and associated assessment of personnel as a licensed centre.

## National marks and certificates

ExVeritas is a Notified Body under the ATEX Directive and an approval body for UKCA after this date

## Standards accepted

See clause ANNEX A of this report

## National differences to IEC standards

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

## Organisation

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

|  |  |  |
| --- | --- | --- |
| **Name** | **Title** | **Experience** |
| Sean Clarke | Managing Director | 31 Years ATEX/Ex Certification Experience with 3 ATEX Notified Bodies. ATEX Notified Body certification reviewer |
| Stephen D’Henin | Technical Director | 35 Years ATEX/Ex Certification Experience with 4 ATEX Notified Bodies. Former ATEX Notified Body technical expert and certification reviewer |

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

|  |  |  |
| --- | --- | --- |
| Name | Title | Experience (years) |
| Craig Nutty | Quality Manager | 20 |

### Name and title of signatories for certification

|  |  |  |
| --- | --- | --- |
| Name | Title | Comments |
| Sean Clarke | Managing Director |  |
| Stephen D’Henin | Technical Director |  |

### Other employees in ExCB activity

|  |  |  |
| --- | --- | --- |
| Name | Title | Experience in Ex (years) |
| Diego Oliveira | Section Manager - Intrinsic Safety Certification | 15 |
| Phil Jones | Section Manager – Product Certification | 15 |

## Organizational structure

The organisational structure is shown in Annex B.

Separation of ExCB and ExTL activities is ensured by virtue of the fact that no staff member may act in the capacity of both ExTL and ExCB for the same project.

## Indemnity insurance

ExVeritas Limited has indemnity coverage from Aviva Insurance Limited. The insurance certificate No 100527691CCI was issued on 01.10.2020 and is valid for one year. The coverage is for 5,000,000 £.

## Resources

ExVeritas has the necessary resources, including well experienced competent staff, to carry out the activities of an ExCB.

ExVeritas maintain a comprehensive competency matrix doc FO-014b which includes the functions associated with 60079-33.

## Committees (such as governing or advisory boards)

Quality Procedure for Management of Impartiality QP-CB-002 addresses impartiality and the rules for operation of the Governing Body. The members of the body are chosen from the following areas representing interests in Product Certification, Manufacturers, Users, Suppliers and Conformity Assessment Experts.

The last meeting of the body took place via conference call in 2020. All members (nine) took part in the meeting. The minutes of the meeting were reviewed and found to meet the requirements of IECEx.

## Certification operations

### National approval/certification methods

ExVeritas is a Notified Body under the ATEX Directive until the 1st January 2021 and an approval body for UKCA after this date

### Certification policy

The Certification Policy is included in the Certification Body Quality Manual and supplements the Quality Policy in the General Quality Manual. The policy commits ExVeritas to providing an independent and impartial certification service. This policy meets the requirements of IECEx.

### Application for certification

The application for certification is addressed in the Certification Body Quality Manual Clause 7.4. Process requirements. It is also addressed in Quality Procedure for Certification Body ATEX and IECEx Process QP-CB-004.

The process is managed through a locally developed system called CMS (Certification Management System). The process when using this system is according to the work instruction WI-016 - CMS Instructions for Internal Personnel.

The system is written in a form that ensures each part of the process must be completed before the next part of the process can begin, for example a contract review must be done before a quote can be issued. Customers can apply on-line using the system and have access to check the progress of their jobs.

A test plan is prepared at the beginning of the project. The test plan includes provision to include additional information that could include reference to IECEx decision sheets, agenda, or interpretation sheets.

### Certification decision

Quality Procedure for Certification Decision QP-CB-006 addresses how the certification decision is taken. It defines how the different levels of IECEx password are allocated to staff. It also includes provisions that all staff involved in the evaluation or assessment must be free from any vested interest in the item to be certified. In addition it states that the person making the certification decision will not be the same person that makes the evaluation or checked and authorized the report. The procedures meet the requirements of IECEx.

### Suspension and cancellation of certificates

Certification Body Quality Manual Clause 7.4.11. Termination, reduction, suspension or withdrawal of certification addresses suspension and cancellation of certificates. There is also a Quality Procedure for Certificate Withdrawal, QP-CB-018. The procedures meet the requirements of 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** |
| **2019** | **2020** |
| **IEC 60079-1** | **Ex d – flameproof enclosures** | 25 | 18 | 43 |
| **IEC 60079-11** | **Ex i – intrinsic safety** | 34 | 28 | 62 |
| **IEC 60079-7** | **Ex e – increased safety** | 15 | 14 | 29 |
| **IEC 60079-2** | **Ex p – pressurized equipment** | 10 | 13 | 23 |
| **IEC 60079-18** | **Ex m – encapsulation** | 4 | 7 | 11 |
| **IEC 60079-6** | **Ex o – liquid immersion** | 0 | 0 | 0 |
| **IEC 60079-5** | **Ex q – powder filling** | 1 | 0 | 1 |
| **IEC 60079-13** | **Ex p – pressurized room** | 2 | 1 | 3 |
| **IEC 60079-15** | **Ex nA – non-sparking equipment** | 3 | 1 | 4 |
| **IEC 60079-15** | **Ex nC – sealed devices** | 5 | 1 | 6 |
| **IEC 60079-15** | **Ex nR – restricted breathing** | 1 | 0 | 1 |
| **IEC 60079-31** | **Ex t – dust ignition protection** | 19 | 19 | 38 |
| **IEC 60079-28** | **Ex op – optical radiation** | 8 | 8 | 16 |
| **IEC 60079-29** | **Gas detectors** | 0 | 0 | 0 |
| **ISO 80079-36** | **Ex h – Non-electrical equipment** | 1 | 5 | 6 |
| **ISO 80079-37** | **Non-electrical equipment protected by constructional safety “c”** | 1 | 4 | 5 |
| **ISO 80079-37** | **Non-electrical equipment protected by control of ignition sources “b”** | 0 | 0 | 0 |
| **ISO 80079-37** | **Non-electrical equipment protected by liquid immersion “k”** | 0 | 0 | 0 |
| **IEC 60079-46** | **Part 46 - Assemblies** | 9 | 9 | 18 |
| **ISO 16852** | **Flame arrestors** | 0 | 0 | 0 |

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

## National accreditation

ExVeritas has an accreditation from UKAS to ISO/IEC 17065 as a certification body which includes all standards (including IEC 60079-33) listed in the scope. A copy is shown at Annex C of this report.

## Assessment of manufacturers and issue of QARs

The procedure for audits is QP-CB-008. It refers to QP-CB-004 CB ATEX and IECEx Process, and QP-CB-014 Surveillance.

QP-CB-008 includes requirements for Audit Method, Conduct of Audits, Audit Report and Recommendations, and Certificate Preparation.

The quality system gives clear guidance on how to conduct the audit and the competence matrix defines clearly the responsibilities and competence of the auditors.

The number of days of the audit is controlled through the ExVeritas Audit Pricing Tool and takes into account the requirements of OD-025, type of customer dependent on ISO 9001 certification, type of protection covered and number of employees.

The procedures and reports reviewed were found to meet the requirements of IECEx.

## Comments (including issues found during assessment)

The staff interviewed had a good understanding of the scope extension standard IEC 60079-33.

Issues were raised during the site assessment requiring action. These were cleared to the satisfaction of the assessment team.

These included:

* Management of contractors
* OD024 Register
* Surveillance of Certificates

# 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
9. OD 233 IECEx Certified Equipment Scheme - Assessment of Ex “s" Equipment

### Additional references applied for this assessment

## ExTL persons interviewed

|  |  |
| --- | --- |
| Name | Position |
| Sean Clarke | Managing Director |
| Stephen D’Henin | Technical Director |
| Diego Oliveira | Quality Manager |

## Associated ExCB(s)

The ExTL is integral with the ExVeritas ExCB . The ExTL is independent of manufacturers, sellers and users of certified products.

## Organisation

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

|  |  |  |
| --- | --- | --- |
| **Name** | **Title** | **Experience** |
| Sean Clarke | Managing Director | 31 ATEX/Ex Certification Experience with 3 ATEX Notified Bodies. ATEX Notified Body certification reviewer |
| Stephen D’Henin | Technical Director | 35 Years ATEX/Ex Certification Experience with 4 ATEX Notified Bodies. Former ATEX Notified Body technical expert and certification reviewer |

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

|  |  |  |
| --- | --- | --- |
| Name | Title | Experience (years) |
| Diego Oliveira | Section Manager - Intrinsic Safety Certification | 15 |

### Other employees in ExTL activity

|  |  |  |
| --- | --- | --- |
| Name | Title | Experience in Ex (years) |
| Phil Jones | Section Manager – Product Certification | 15 |

## Organizational structure

See Annex B

## Resources

ExVeritas has the necessary resources in facilities, equipment and staff to be able to carry out testing to the standards in the scope as well as the requested scope extension.

ExVeritas maintain a comprehensive competency matrix doc FO-014a for the various testing capabilities.

## 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 certificates (for last 2 years) | | Total |
| --- | --- | --- | --- | --- |
| 2019 | 2020 |
| IEC 60079-1 | Ex d – flameproof enclosures | 25 | 18 | 43 |
| IEC 60079-11 | Ex i – intrinsic safety | 34 | 28 | 62 |
| IEC 60079-7 | Ex e – increased safety | 15 | 14 | 29 |
| IEC 60079-2 | Ex p – pressurized equipment | 10 | 13 | 23 |
| IEC 60079-18 | Ex m – encapsulation | 4 | 7 | 11 |
| IEC 60079-6 | Ex o – liquid immersion | 0 | 0 | 0 |
| IEC 60079-5 | Ex q – powder filling | 1 | 0 | 1 |
| IEC 60079-13 | Ex p – pressurized room | 2 | 1 | 3 |
| IEC 60079-15 | Ex nA – non-sparking equipment | 3 | 1 | 4 |
| IEC 60079-15 | Ex nC – sealed devices | 5 | 1 | 6 |
| IEC 60079-15 | Ex nR – restricted breathing | 1 | 0 | 1 |
| IEC 60079-31 | Ex t – dust ignition protection | 19 | 19 | 38 |
| IEC 60079-28 | Ex op – optical radiation | 8 | 8 | 16 |
| IEC 60079-29 | Gas detectors | 0 | 0 | 0 |
| ISO 80079-36 | Ex h – Non-electrical equipment | 1 | 5 | 6 |
| ISO 80079-37 | Non-electrical equipment protected by constructional safety “c” | 1 | 4 | 5 |
| ISO 80079-37 | Non-electrical equipment protected by control of ignition sources “b” | 0 | 0 | 0 |
| ISO 80079-37 | Non-electrical equipment protected by liquid immersion “k” | 0 | 0 | 0 |
| IEC 60079-46 | Part 46 - Assemblies | 9 | 9 | 18 |
| ISO 16852 | Flame arrestors | 0 | 0 | 0 |

## National accreditation

ExVeritas has accreditation from UKAS to ISO/IEC 17025:2017 to provide testing, certificate number 8613.

The certificate covers all standards as shown in the scope in this report

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

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

## Calibration

The equipment are managed through the Certification Management System.

Most of the test equipment are sent out for calibration by an external calibration facility. These calibration facilities are UKAS accredited.

The Certification Management System, a selection of calibration certificates as well as calibration tags on the equipment were reviewed during the assessment and found to meet the requirements of IECEx.

## Tests witnessed during the assessment visit

Live video streaming was used to witness the following tests as part of the assessment

The following tests were witnessed during the assessment

|  |  |  |  |
| --- | --- | --- | --- |
| Standard and edition | Clause number | Test | Comments |
| IEC 60079-0: 2017 General Requirements | 26.13 | Surface resistance test of part of enclosure of non-metallic enclosure |  |
|  | 26.4.5 | Degree of protection (IP) by enclosures |  |
|  | 26.14 | Measurement of capacitance |  |
| IEC 60079-1: 2014 Flameproof enclosures ‘d’ | 15.2.2 / 15.2.3 | Determination of explosion pressure (reference pressure) / Overpressure test |  |
| IEC 60079-11: 2011 Intrinsic Safety ‘i’ | 10.1 | Spark ignition test |  |
|  | 10.5.3 | Spark ignition and surface temperature of cells and batteries |  |
| IEC 60079-18: 2014 Encapsulation | 8.1.2 | Dielectric strength |  |
| IEC 60079-15: 2017 Type of protection “n” | 11.2.3 | Leakage tests on sealed devices |  |
| IEC 60079-31: 2013 Protection by enclosure “t” | 6.1.2 | Thermal tests |  |

## Participation in IECEx Proficiency Testing Programs

Program: PTB Ex PT Scheme

|  |  |  |
| --- | --- | --- |
| Year(s) of participation | IECEx Proficiency Testing program | General information about results |
| 2011 | Program 1 "Explosion pressure" | Not IECEx TL at this time |
| 2011 | Program 2 "Spark ignition" | Not IECEx TL at this time |
| 2013 | Program 3 "Flame Transmission" | Not IECEx TL at this time |
| 2013 | Program 4 "Temperature Classification" | Not IECEx TL at this time |
| 2015 | Program 5 "Electrostatic Charge" | Satisfactory |
| 2015 | Program 6 "Intrinsic Safety" | Satisfactory |
| 2017 | Program 7 "Explosion Pressure" | Satisfactory |
| 2017 | Program 8 "Pressurized Enclosure" | Satisfactory |

## Comments (including issues found during assessment)

No issues were raised during the site assessment visit requiring action.

# ExCB for Certified Service Facilities Scheme

## Assessment references

### General references

1. 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)
2. 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
3. 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
4. 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
5. 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
6. ISO/IEC 17065 General requirements for bodies operating product certification systems Conformity assessment — Requirements for bodies certifying products, processes and services
7. IECEx TCD 60079-19, Technical Capability Document IEC 60079 -19: 2010, Explosive atmospheres - Parts 19: Equipment repair, overhaul and reclamation
8. IECEx OD 060 IECEx Guide for Business Continuity – Management of Extraordinary Circumstances or Events Affecting IECEx Certification Schemes and Activities
9. IEC 60079-17 Explosive atmospheres - Part 17: Electrical installations inspection and maintenance
10. IEC 60079-19 Explosive atmospheres – Part 19: Equipment repair, overhaul and reclamation
11. ExSFC Decision Sheets

NOTE The latest editions of the above documents were applied

### Additional references applied for this assessment

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

## ExCB persons interviewed

|  |  |
| --- | --- |
| Name | Position |
| **Craig Nutty** | **Quality Manager** |

## National marks and certificates

ExVeritas is :

* until 1st January 2021, an ATEX Notified Body
* an approval body for the UKCA Mark.
* an IECEx Certification Body & Test Laboratory

## Standards accepted

See clause 1.6 of this report

## National differences to IEC standards

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

## Organisation

**ExVeritas Limited**

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

|  |  |  |
| --- | --- | --- |
| Name | Title | Experience (years) |
| **Sean Clarke** | **Managing Director** | **25+** |

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

|  |  |  |
| --- | --- | --- |
| Name | Title | Experience (years) |
| **Craig Nutty** | **Quality Manager** | **20** |

### Name and title of signatories for certification

|  |  |  |
| --- | --- | --- |
| Name | Title | Comments (years) |
| **Sean Clarke** | **Managing Director** | **25+** |

### Other employees in ExCB activity

|  |  |  |
| --- | --- | --- |
| Name | Title/responsibility | Experience in Ex (years) |
| **Peter Lauritzen** | **Managing Director (Denmark)** | **25+** |

## Organizational Structure

See Annex B. Indemnity insurance

ExVeritas Limited has indemnity coverage from Aviva Insurance Limited. The insurance certificate No 100527691CCI was issued on 01.10.2020 and is valid for one year. The coverage is for 5,000,000 £.

## Resources

ExVeritas has the necessary resources, including well experienced competent staff, to carry out the activities of an ExCB for Certified Service Facilities Scheme

The competence are managed using the CMS system.

## Committees (such as governing or advisory boards)

Quality Procedure for Management of Impartiality QP-CB-002 addresses impartiality and the rules for operation of the Governing Body. The members of the body are chosen from the following areas representing interests in Product Certification, Manufacturers, Users, Suppliers and Conformity Assessment Experts.

The last meeting of the body took place via conference call in 2020. All members (nine) took part in the meeting. The minutes of the meeting were reviewed and found to meet the requirements of IECEx.

## Certification operations

### National approval/certification Methods

ExVeritas is a Notified Body under the ATEX Directive until the 1st January 2021 and an approval body for UKCA after this date.

### Certification policy

The Certification Policy is included in the Certification Body Quality Manual and supplements the Quality Policy in the General Quality Manual. The policy commits ExVeritas to providing an independent and impartial certification service

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

### Application for certification

The application for certification is addressed in the Certification Body Quality Manual Clause 7.4. Process requirements. It is also addressed in procedure QP-CB-028 Quality procedure for IECEx Certified Service Facility Scheme.

The process is managed through a locally developed system called CMS (Certification Management System). The process when using this system is according to the work instruction WI-016 - CMS Instructions for Internal Personnel.

The system is written in a form that ensures each part of the process must be completed before the next part of the process can begin, for example a contract review must be done before a quote can be issued. Customers can apply on-line using the system and have access to check the progress of their jobs.

### Certification decision

Quality Procedure for Certification Decision QP-CB-006 addresses how the certification decision is taken. It defines how the different levels of IECEx password are allocated to staff. It also includes provisions that all staff involved in the evaluation or assessment must be free from any vested interest in the item to be certified. In addition it states that the person making the certification decision will not be the same person that makes the evaluation or checked and authorized the report.

### Suspension and cancellation of certificates

Certification Body Quality Manual Clause 7.4.11. Termination, reduction, suspension or withdrawal of certification addresses suspension and cancellation of certificates. There is also a Quality Procedure for Certificate Withdrawal, QP-CB-018.

## Statistics

No audits carried out and no FAR’s issued. One project is in progress.

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 | **0** |
| Increased Safety "e" | E | **0** |
| Type of Protection "n" | N | **0** |
| Intrinsic Safety "i" | I | **0** |
| Oil Filled "o" | O | **0** |
| Pressurisation "p" | P | **0** |
| Dusts to IEC 60079-31 "t" | T | **0** |
| Dusts to IEC 61241-1 "tD" | tD | **0** |
| Dusts to IEC 61241-1-1 "DIP" | DIP | **0** |
| Other (eg non-electrical) | Ot | **0** |

## National accreditation

ExVeritas has an accreditation from UKAS to ISO/IEC 17065 as a certification body which includes IEC 60079-14 and IEC 60079-17. A copy is shown at Annex C of this report

Ex Veritas is also accredited from UKAS to ISO/IEC 17020 and 17021 (See Annex E and F )

## Assessment of service facilities and issue of FARs

The procedure for audits is QP-CB-008. It refers to procedure QP-CB-028 Quality procedure for IECEx Certified Service Facility Scheme.

QP-CB-008 includes requirements for Audit Method, Conduct of Audits, Audit Report and Recommendations, and Certificate Preparation.

The quality system gives clear guidance on how to conduct the audit and the competence matrix defines clearly the responsibilities and competence of the auditors.

The number of days of the audit is controlled through the ExVeritas Audit Pricing Tool and takes into account the requirements of OD-025, type of customer dependent on ISO 9001 certification, type of protection covered and number of employees.

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

## Comments (including issues found during assessment)

The staff interviewed had a good understanding of the scheme.

No Issues were raised during the site assessment visit requiring action.

# Annexes

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

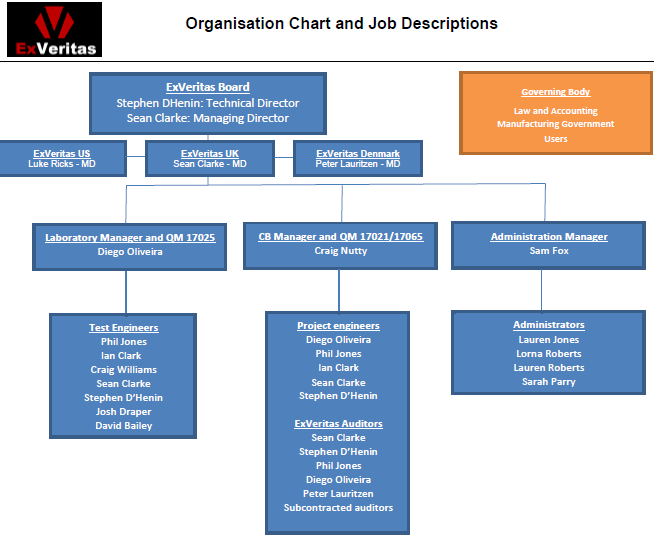
| Number | Title | Comments |
| --- | --- | --- |
| IEC 60079-0  Edition 7.0 | Explosive atmospheres - Part 0: Equipment - General requirements |  |
| IEC 60079-1  Edition 7.0 | Explosive atmospheres - Part 1: Equipment protection by flameproof  enclosures “d” |  |
| IEC 60079-2  Edition 6.0 | Explosive atmospheres - Part 2: Equipment protection by pressurized  enclosure “p’ |  |
| IEC 60079-5  Edition 4.0 | Explosive atmospheres - Part 5: Equipment protection by powder filling “q” |  |
| IEC 60079-6  Edition 4.0 | Explosive atmospheres - Part 6: Equipment protection by oil immersion “o” |  |
| IEC 60079-7  Edition 5.0 | Explosive atmospheres - Part 7: Equipment protection by increased  safety "e" |  |
| IEC 60079-11  Edition 6.0 | Explosive atmospheres - Part 11: Equipment protection by intrinsic safety “i” |  |
| IEC 60079-13  Edition 2.0 | Explosive atmospheres -  Part 13: Equipment protection by pressurized room "p" and artificially ventilated room "v" |  |
| IEC 60079-15  Edition 5.0 | Explosive atmospheres – Part 15: Equipment protection by type of protection "n" |  |
| IEC 60079-18  Edition 4.0 | Explosive atmospheres – Part 18: Equipment protection by encapsulation “m” |  |
| IEC 60079-25  Edition 2.0 | Explosive atmospheres – Part 25: Intrinsically safe electrical systems |  |
| IEC 60079-26  Edition 3.0 | Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga |  |
| IEC 60079-28  Edition 2.0 | Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation |  |
| IEC 60079-31  Edition 2.0 | Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t" |  |
| IEC 60079-33  Edition 1.0 | Explosive atmospheres – Part 33: Equipment protection by special protection “s” | Scope extension |
| IS0 80079-36  Edition 1.0 | Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres – Basic method and requirements |  |
| ISO 80079-37  Edition 1.0 | Explosive atmospheres - Part 37: Non-electrical equipment for explosive atmospheres – Non electrical type of protection constructional safety ”c” control of ignition source ”b”, liquid immersion ”k” |  |
| IEC TS 60079-46  Edition 1.0 | Explosive atmospheres – Part 46 - Equipment assemblies |  |

* 1. Superseded standards

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

| Number | Title | Comments |
| --- | --- | --- |
| IEC 60079-27  Edition 2.0 | Explosive atmospheres – Part 27: Fieldbus intrinsically safe concept (FISCO) |  |
| IEC 61241-0  Edition 1.0 | Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements |  |
| IEC 61241-1  Edition 1.0 | Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosure “tD” |  |
| IEC 61241-4  Edition 1.0 | Electrical apparatus for use in the presence of combustible dust - Part 4: Protection by pressurization "pD" |  |
| IEC 61241-11  Edition 1.0 | Electrical apparatus for use in the presence of combustible dust – Part 11: Protection by intrinsic safety 'iD' |  |
| IEC 61241-18  Edition 1.0 | Electrical apparatus for use in the presence of combustible dust - Part 18: Protection by encapsulation "mD" |  |

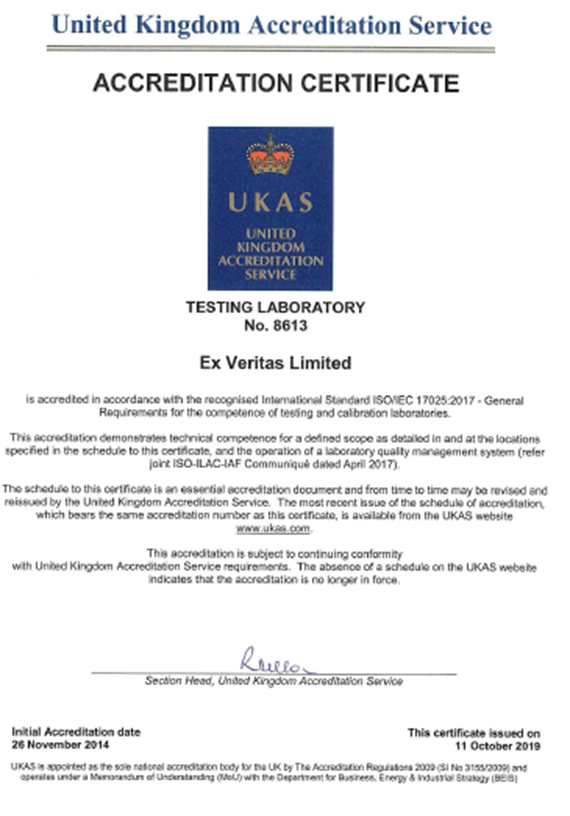
1. Overall Organisation Chart



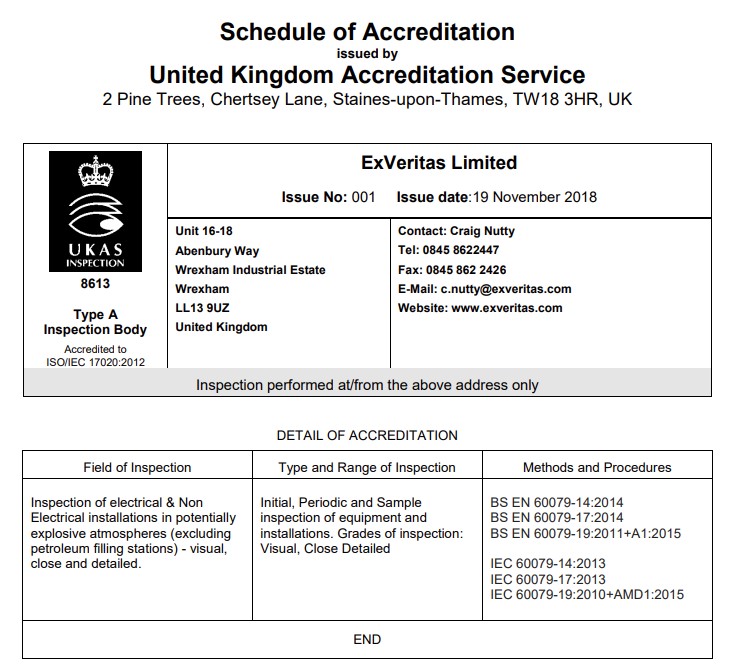
1. Accreditation Certificate for ISO/IEC 17065



1. Accreditation Certificate for ISO/IEC 17025



1. Accreditation Certificate for ISO/IEC 17020



1. Accreditation Certificate for ISO/IEC 17021

