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

## Title: Proposed Amendment to ExMC/48L/Q

To: Members of the IECEx Management Committee, ExMC

**Introduction**

This document contains a proposal for amendments to the IECEx 02 Scheme ExTL Application Form (currently published as ExMC/48L/Q) and republishing as IECEx Form F-009, Version 01.

This is now submitted to the 2021 ExMC meeting for approval to publish AND for approval for the IECEx ExAG to prepare and publish updates for content related to Standards Edition #s and to Proficiency Testing Program events only.

Proposed changes are shown using the tracking tools to indicate proposed additions, changes and ~~deletions~~.

**IECEx Secretary**

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

Application to become an ExTL in the IECEx Certified Equipment Scheme

IECEx ExTL application for <Insert body name>

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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| Introduction |
| This document contains updated details relating to the IECEx application to become an Ex Testing Laboratory (ExTL) in the IECEx Certified Equipment Scheme. The document supersedes and replaces ExMC/48L/Q. |
| This document incorporates the following major changes:   * A change in numbering system to the “F” series * A change in format * Moving the list of standards to annexes to make standards lists compatible with lists in the latest version of the ExCB/ExTL/ATF report (F-003) |
|  |

# Application introduction

………………………………………………………………………………….(name of Applicant ExTL)

makes the following application in accordance with 11.2.2 and Annex C of Publication IECEx 02.

# Description of the testing laboratory

|  |  |
| --- | --- |
| Name of the laboratory. |  |
| Organisation chart(s). Include in Annexes B and C. |  |
| The legal status of the laboratory. |  |
| The address(es) at which it carries out its operations. |  |
| The means by which the laboratory will demonstrate compliance with ISO/IEC 17025. |  |
| The documents available for providing supporting information, for example with regard to existing accreditation. |  |
| The relationship between the laboratory and the Ex Certification Body(ies) used in the course of its work (including the case where the testing laboratory is integral with the Certification Body). |  |
| The responsibilities concerning assessment and testing. |  |

# List of standards for scope

In Annex A, note the Standards (in the third column), including the latest edition, to which the laboratory intends to conduct tests. These will form the scope of the ExTL when accepted.

NOTE All standards requested for the ExTL scope must also be in the scope of (at least one of) the associated ExCB(s).

# Annex C of Publication IECEx 02

The information required in Annex C of Publication IECEx 02 - Rules of Procedure (use separate sheets).

# Number of test reports issued

Number of test reports issued in preceding two years for each type of protection covered by the standards listed in Annex A.

NOTE This information is required to understand the level of experience that the applicant ExTL has in conducting testing for each of the types of protection.

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

# Participation in IECEx Proficiency Testing Program

Information should be provided in Annex D on participation in the IECEx Proficiency Testing Program.

The above shall indicate completion of one or more programs as required by OD 202, or the means by which the applicant proposes to demonstrate satisfactory compliance with past programs, for example by demonstrating tests on program artefacts.

NOTE It is anticipated the bodies will have prior/current involvement in IECEx or similar proficiency testing programs to satisfy the requirements of ISO/IEC 17025. Lack of involvement in proficiency testing can be expected to result in additional time for the initial assessment to witness additional tests.

# Declaration

The laboratory undertakes to abide by the Rules and Procedures laid down in Publication IECEx 02.

.

(Signature)

(Name)

(Role)

(Date)

# Endorsement of Member Body

Endorsement of the IECEx Member Body

(Signature)

(Name)

(Role)

(Name of country, which may be the country of the ExTL or of the associated ExCB)

(Date)

1. Requested 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 4.1 | Explosive atmospheres - Part 6: Equipment protection by liquid immersion “o” |  |
| IEC 60079-7  Edition 5.1 | 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 4.1 | Explosive atmospheres – Part 18: Equipment protection by encapsulation “m” |  |
| IEC 60079-25  Edition 3.0 | 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 60079-29-1  Edition 2.1 | Explosive atmospheres - Part 29-1: Gas detectors – Performance requirements of detectors for flammable gases |  |
| IEC 60079-29-4  Edition 1.0 | Explosive Atmospheres – Part 29-4: Gas detectors - Performance requirements of open path detectors for flammable gases |  |
| IEC/IEEE 60079-30-1  Edition 1.0 | Explosive atmospheres – Part 30-1: Electrical resistance trace heating – General and testing requirements |  |
| IEC 60079-31  Edition 2.0 | Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t" |  |
| IEC TS 60079-32-1  Edition 1.1 | Explosive atmospheres - Part 32-1: Electrostatic hazards, guidance  (may be used for testing purposes but not for issuing an IECEx Certificate of Conformity) |  |
| IEC 60079-32-2  Edition 1.0 | Explosive atmospheres - Part 32-2: Electrostatics hazards - Tests  (may be used for testing purposes but not for issuing an IECEx Certificate of Conformity) |  |
| IEC 60079-33  Edition 1.0 | Explosive atmospheres – Part 33: Equipment protection by special protection “s” |  |
| IEC 60079-35-1  Edition 1.0 | Explosive atmospheres – Part 35-1: Caplights for use in mines susceptible to firedamp – General requirements – Construction and testing in relation to the risk of explosion |  |
| IEC 60079-35-2  Edition 1.0 | Explosive atmospheres – Part 35-2: Caplights for use in mines susceptible to firedamp – Performance and other safety-related matters |  |
| 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 60079-39  Edition 1.0 | Explosive atmospheres - Part 39: Intrinsically safe systems with electronically controlled spark duration limitation |  |
| IEC TS 60079-40  Edition 1.0 | Explosive atmospheres - Part 40: Requirements for process sealing between flammable process fluids and electrical systems |  |
| IEC TS 60079-42  Edition 1.0 | Explosive atmospheres - Part 42: Electrical safety devices for the control of potential ignition sources from Ex-Equipment  (may be used for testing purposes but not for issuing an IECEx Certificate of Conformity) |  |
| IEC TS 60079-46  Edition 1.0 | Explosive atmospheres – Part 46 - Equipment assemblies |  |
| IEC 62784  Edition 1.1 | Vacuum cleaners and dust extractors providing equipment protection level Dc for the collection of combustible dusts - Particular requirements |  |
| ISO 16852  Edition 2 | Flame arrestors - Performance requirements, test methods and limits for use |  |

NOTE The above are the latest editions of the standards. Acceptance for the latest edition will also enable you to carry out assessment and testing to earlier editions the standard.

* 1. Superseded standards

The following superseded standards may form part of a laboratory’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" |  |
| 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 |  |
| IEC 62013-2  Edition 2.0 | Caplights for use in mines susceptible to firedamp - Part 2: Performance and other safety-related matters |  |
| IECEx DS2015/001A  2015 10 09 | Equipment assemblies |  |

1. Overall Organisation Chart
2. Organisation Chart of ExTL
3. Proficiency Testing Program

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

|  |  |  |  |
| --- | --- | --- | --- |
| IECEx Proficiency Testing program | Program years | Participated?  Y/N/NA | Comment on results |
| Program 1 "Explosion pressure" | 2011-2012 |  |  |
| Program 2 "Spark ignition" | 2011-2012 |  |  |
| Program 3 "Flame Transmission" | 2013-2014 |  |  |
| Program 4 "Temperature Classification" | 2013-2014 |  |  |
| Program 5 "Electrostatic Charge" | 2015-2016 |  |  |
| Program 6 "Intrinsic Safety" | 2015-2016 |  |  |
| Program 7 "Explosion Pressure" | 2017-2018 |  |  |
| Program 8 "Pressurized Enclosure" | 2017-2018 |  |  |
| Program 9 “Battery Testing” | 2019-2020 |  |  |
| Program 10 “Tests of Enclosures” | 2019-2020 |  |  |
| Program 11 "Flameproof Joints" | 2021-2022 |  |  |
| Program 12 "Small Component Temperature” | 2021-2022 |  |  |

NOTE N/A would normally apply when the relevant standard is not in the scope of the laboratory.