**INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC SYSTEM FOR**

**CERTIFICATION TO STANDARDS RELATING TO EQUIPMENT FOR USE IN**

**EXPLOSIVE ATMOSPHERES (IECEx SYSTEM)**

**TITLE: Scope Extension Assessment Report for Mining and Surface Certification (Pty) Ltd (MASC), an Accepted ExCB and an Accepted ExTL within the IECEx System, Equipment Scheme 02, to include, IEC 60079-28, IEC 60079-33, IEC TS 60079-46, ISO 80079-36 and ISO 80079-37 in their scope.**

**Circulated To: Members of the IECEx Management Committee, ExMC**

**Introduction**

Mining and Surface Certification (Pty) Ltd (MASC), an Accepted ExCB and an Accepted ExTL within the IECEx System, Equipment Scheme 02, has applied to include the following Standards within their scope. A special assessment was arranged and conducted in accordance with OD060.

IEC 60079-28 Ed. 1.0 Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation

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

IEC TS 60079-46 Ed. 1.0 Explosive atmospheres - Part 46: Equipment assemblies

IS0 80079-36 Ed. 1.0 Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres – Basic method and requirements

ISO 80079-37 Ed. 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”

This report details the assessment findings of this scope extension with the IECEx

Assessment Team recommending the acceptance of the above scope extension.

***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 2022 03 03***

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

*Chris Agius*

**IECEx Secretary**

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| --- | --- |
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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 MASC

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 | [ ]  |

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 | [x]  |

## Details of body

### Country

South Africa

### Name of body

Mining And Surface Certification (Pty) Ltd (MASC)

### Name and title of nominated principal contact

|  |  |  |
| --- | --- | --- |
| Name | Title | E-mail address |
| Regardt Zeelie | International Certification - Manager  | regardt@masc-ex.co.za |

## Assessment information

### Members of the assessment team

|  |  |
| --- | --- |
| Name  | Role  |
| Ron Webb | IECEx Lead Assessor |

### Place(s) of assessment

|  |
| --- |
| 45 Jurg Ave, Lelyta Park Unit 5, Hennopspark, Centurion, 0157, South Africa |

### Assessment date(s)

8-10 December 2021. Carried out remotely in accordance with OD060 using Microsoft Teams, due to COVID-19 travel restrictions

## Application information and background information on the assessment

Application for scope extension was made by way of form F-011 dated 2021-10-19. The following Standards were covered as part of this scope extension assessment.

|  |  |  |
| --- | --- | --- |
| Number  | Title  | Comments |
| IEC 60079-28Edition 2.0 | Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation  | scope extension |
| IEC 60079-33Edition 1.0 | Explosive atmospheres – Part 33: Equipment protection by special protection “s” | scope extension |
| IEC TS 60079-46Edition 1.0 | Explosive atmospheres – Part 46 - Equipment assemblies | scope extension |
| IS0 80079-36Edition 1.0 | Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres – Basic method and requirements | 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” | scope extension |

## Scopes

### ExCB scope for equipment certification scheme

The scope for the ExCB, including the scope extension standards is shown in Annex A.

### ExTL scope

The ExTL scope is the same as the ExCB Scope

# Common information

## Legal entity of body

Not relevant as this is a scope extension assessment. This was covered in the re-assessment in 2019 ref ExMC/1563/R. Other entries below shown as not relevant are also covered in the re-assessment report.

## Financial support

Not relevant as this is a scope extension assessment. This was covered in the re-assessment in 2019 ref ExMC/1563/R

## History

Not relevant as this is a scope extension assessment. This was covered in the re-assessment in 2019 ref ExMC/1563/R

## Documentation

### Quality manual

MASC has a top level Quality Manual covering the higher level requirements of the scheme and below it are additional manuals containing procedures which also meet the requirements of the IECEx scheme.

### Procedures

Procedures have been updated to cover the scope extension standards and the implementation of OD060

### Work instructions

Work instructions have been created as necessary for the scope extension standards

### Records (including test records where relevant)

Not relevant as this is a scope extension assessment. This was covered in the re-assessment in 2019 ref ExMC/1563/R.

### Document change control

Not relevant as this is a scope extension assessment. This was covered in the re-assessment in 2019 ref ExMC/1563/R.

## Confidentiality

Not relevant as this is a scope extension assessment. This was covered in the re-assessment in 2019 ref ExMC/1563/R.

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

Not relevant as this is a scope extension assessment. This was covered in the re-assessment in 2019 ref ExMC/1563/R.

## Recognitions and agreements

Not relevant as this is a scope extension assessment. This was covered in the re-assessment in 2019 ref ExMC/1563/R.

## Internal audit

Not relevant as this is a scope extension assessment. This was covered in the re-assessment in 2019 ref ExMC/1563/R.

## Management review

Not relevant as this is a scope extension assessment. This was covered in the re-assessment in 2019 ref ExMC/1563/R.

## Contracting, subcontracting and witness testing

### Contracting

Not relevant as this is a scope extension assessment. This was covered in the re-assessment in 2019 ref ExMC/1563/R.

### Subcontracting

Covered by previous assessment, ExMC/1563/R.  It was confirmed that there will be no subcontracting for all Standards requested and the subject of this scope extension assessment.

### Off-site and Witness testing

This is carried out in accordance with OD024 and the procedure has been updated to refer to OD060. MASC are aware of the online register and will be adding details.

## Training and competence

Details of staff competencies are included in the site assessment report. These meet the requirements of IECEx.

## Complaints and appeals (including appeals to IECEx)

Not relevant as this is a scope extension assessment. This was covered in the re-assessment in 2019 ref ExMC/1563/R.

## Impartiality

The impartiality requirements for ISO/IEC 17065 and 17025 will be applied to ensure the independence of verifiers, as required by IEC 60079-33 and OD 233, is ensured.

## Active involvement in development of Decision Sheets

Not relevant as this is a scope extension assessment. This was covered in the re-assessment in 2019 ref ExMC/1563/R.

## 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 and include:

* Completed Technical Capability Document (TCD) for the scope extension standards
* Photos of the facilities/tests witnessed, included in the above TCD
* Information on competencies

**2.17 Recommendations**

Based on the assessment performed on 8-10 December 2021, MASC is recommended for the acceptance of the scope extension requested 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 Annex A including the extension of scope.

|  |  |
| --- | --- |
| Ron Webb | IECEx Lead Assessor |
| Date: 19 January 2022 |

# 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. IEC OD 280 IECEx Certified Equipment Scheme – Guide to Certification of Non-electrical Equipment and Protective Systems
2. IEC OD 233 IECEx Certified Equipment Scheme - Assessment of Ex “s" Equipment Ed. 2.0

## ExCB persons interviewed

|  |  |
| --- | --- |
| Name | Position |
| Terine Orsmond | International Certification Project Manager |
| Regardt Zeelie  | International Certification Technical Specialist |
| Francoius du Toit | Director |

## Associated ExTL(s)

The ExCB is integral with the ExTL

## Associated certification functions

Not relevant as this is a scope extension assessment. This was covered in the re-assessment in 2019 ref ExMC/1563/R.

## National marks and certificates

Not relevant as this is a scope extension assessment. This was covered in the re-assessment in 2019 ref ExMC/1563/R.

## Standards accepted

See Annex A

## National differences to IEC standards

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

## Organisation

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

|  |  |  |
| --- | --- | --- |
| Name | Title | Experience (years) |
| Roelof Viljoen | Director | 27 years |
| Francoius du Toit | Director | 17 years |

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

|  |  |  |
| --- | --- | --- |
| Name | Title | Experience (years) |
| Roelof Viljoen | Director | 27 years |
| Francoius du Toit | Director | 17 years |
| Terine Orsmond | International Certification Project Manager | 12 years |

### Name and title of signatories for certification

|  |  |  |
| --- | --- | --- |
| Name | Title | Comments |
| Roelof Viljoen | Director | 27 years |
| Francoius du Toit | Director | 17 years |

### Other employees in ExCB activity

|  |  |  |
| --- | --- | --- |
| Name | Title | Experience in Ex (years) |
| Regardt Zeelie | International Certification Technical Specialist | 5 years |

## Organizational structure

An organisation chart is included as Annex B.

## Indemnity insurance

Not relevant as this is a scope extension assessment. This was covered in the re-assessment in 2019 ref ExMC/1563/R.

## Resources

MASC has the appropriate resources of competent staff and appropriate procedures to be able to certify to all Standards requested for the scope extension.

## Committees (such as governing or advisory boards)

Not relevant as this is a scope extension assessment. This was covered in the re-assessment in 2019 ref ExMC/1563/R.

## Certification operations

### National approval/certification methods

MASC also operate as a National Certification Body, within South Africa

### Certification policy

Not relevant as this is a scope extension assessment. This was covered in the re-assessment in 2019 ref ExMC/1563/R.

### Application for certification

Not relevant as this is a scope extension assessment. This was covered in the re-assessment in 2019 ref ExMC/1563/R.

### Certification decision

Not relevant as this is a scope extension assessment. This was covered in the re-assessment in 2019 ref ExMC/1563/R.

### Suspension and cancellation of certificates

Not relevant as this is a scope extension assessment. This was covered in the re-assessment in 2019 ref ExMC/1563/R.

## Certificates issued

There have not been any certificates issued to the scope extension standards, but sample reports prepared were submitted and reviewed, and interviews with relevant staff indicated a good understanding of the standards.

## National accreditation

The national accreditation certification for ISO/IEC 17065 is shown in Annex C. While the ISO/IEC 17025 accreditation covers the scope extension standards, MASC accreditation for ISO/IEC 17065 is being updated to cover these additional standards.

## Assessment of manufacturers and issue of QARs

The procedure for issuing QARs has been updated to include reference to OD060 and standards under the scope extension request.

## Comments (including issues found during assessment)

Minor errors in one of the procedures were corrected during the assessment to the satisfaction of the assessment team.

#  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. IEC OD 280 IECEx Certified Equipment Scheme – Guide to Certification of Non-electrical Equipment and Protective Systems
2. IEC OD 233 IECEx Certified Equipment Scheme - Assessment of Ex “s" Equipment Ed. 2.0

## ExTL persons interviewed

|  |  |
| --- | --- |
| Name | Position |
| Regardt Zeelie | International Certification Technical specialist |
| Francoius du Toit | National Certification Director |
| Mark Sadler | International Certification Testing Officer |
| Terine Orsmond | International Certification Project Manager |
| Danie Visser | Technical Director |

## Associated ExCB(s)

The ExTL is integral with the ExCB

## Organisation

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

|  |  |  |
| --- | --- | --- |
| Name | Title | Experience (years) |
| Roelof Viljoen | Director | 27 years |
| Francoius du Toit | Director | 17 years |

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

|  |  |  |
| --- | --- | --- |
| Name | Title | Experience (years) |
| Roelof Viljoen | Director | 27 years |
| Terine Orsmond | Deputy Quality Manager | 12 Years |

### Other employees in ExTL activity

|  |  |  |
| --- | --- | --- |
| Name | Title/responsibility | Experience in Ex (years) |
| Regardt Zeelie | International Certification Technical Specialist | 5 years |
| Mark Sadler  | International Certification Testing Officer  | 2 years |
| Danie Visser | Technical Director | 5 years |

## Organizational structure

An organisation chart is included as Annex B.

## Resources

MASC has the appropriate resources of competent staff and appropriate procedures to be able to certify to IEC 60079-33 and all Standards requested.

## Test reports issued

There have not been any test reports issued to the scope extension standards but sample reports prepared to support the standards were submitted and interviews with relevant staff indicated a good understanding of the standards. The standards are included in the National Accreditation to ISO/IEC 17025, including the standards under scope extension request.

## National accreditation

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

## Calibration

Not relevant as this is a scope extension assessment. This was covered in the re-assessment in 2019 ref ExMC/1563/R.

##  Tests witnessed during the assessment visit

The operation of the optical radiance measurement equipment was witnessed remotely and was seen to be acceptable.

## Participation in IECEx Proficiency Testing Programs

MASC participate in the PT scheme organised by PTB. Details of their participation in the PTP Scheme is covered in ExMC/1563/R.

## Comments (including issues found during assessment)

All issues raised during the assessment have been satisfactorily resolved and the assessment team now recommend acceptance of the scope extension.

1. Scope for IECEx Certified Equipment Scheme

**A.1 Current standards**

| Number  | Title  | Comments |
| --- | --- | --- |
| IEC 60079-0 Edition 7.0 | Explosive atmospheres - Part 0: Equipment - General requirements  | in scope |
| IEC 60079-1Edition 7.0 | Explosive atmospheres - Part 1: Equipment protection by flameproofenclosures “d” | in scope |
| IEC 60079-5Edition 4.0 | Explosive atmospheres - Part 5: Equipment protection by powder filling “q” | in scope |
| IEC 60079-7Edition 5.1 | Explosive atmospheres - Part 7: Equipment protection by increasedsafety "e" | in scope |
| IEC 60079-11Edition 6.0 | Explosive atmospheres - Part 11: Equipment protection by intrinsic safety “i” | in scope |
| IEC 60079-15Edition 5.0 | Explosive atmospheres – Part 15: Equipment protection by type of protection "n" | in scope |
| IEC 60079-18Edition 4.0 | Explosive atmospheres – Part 18: Equipment protection by encapsulation “m” | in scope |
| IEC 60079-25Edition 3.0 | Explosive atmospheres – Part 25: Intrinsically safe electrical systems | in scope |
| IEC 60079-26Edition 3.0 | Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga | in scope |
| IEC 60079-28Edition 2.0 | Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation  | 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 | in 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 | in scope |
| IEC 60079-31Edition 2.0 | Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t" | in scope |
| IEC 60079-33Edition 1.0 | Explosive atmospheres – Part 33: Equipment protection by special protection “s” | scope extension |
| IS0 80079-36Edition 1.0 | Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres – Basic method and requirements | 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” | scope extension |
| IEC TS 60079-46Edition 1.0 | Explosive atmospheres – Part 46 - Equipment assemblies | scope extension |

**A.2 Superseded Standards**

| Number  | Title  | Comments |
| --- | --- | --- |
| \*IEC 61241-0Ediiton 1.0 | Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements | in scope |
| \*IEC 61241-1 Edition 1.0 | Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosure “tD” | in scope |
| \*IEC 61241-11Edition 1.0 | Electrical apparatus for use in the presence of combustible dust – Part 11: Protection by intrinsic safety 'iD' | in scope |
| \*IEC 61241-18Edition 1.0  | Electrical apparatus for use in the presence of combustible dust - Part 18: Protection by encapsulation "mD" | in 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 | in scope |
| \*IEC 62013-2 Edition 2.0 | Caplights for use in mines susceptible to firedamp - Part 2: Performance and other safety-related matters | in scope |

1. Organisation Chart



1. Accreditation Certificate for ISO/IEC 17065



1. Accreditation Certificate for ISO/IEC 17025

