**INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC SYSTEM FOR**

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

**EXPLOSIVE ATMOSPHERES (IECEx SYSTEM)**

**TITLE: IECEx Assessment Report for the acceptance of** **TUV Rheinland Taiwan Ltd., as an IECEx Testing Laboratory (ExTL), in the IECEx System, Equipment Scheme, IECEx 02.**

**INTRODUCTION**

This document contains the IECEx Assessment Report for the acceptance of TUV Rheinland Taiwan Ltd., as an IECEx Testing Laboratory (ExTL), in the IECEx System, Equipment Scheme, IECEx 02.

***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 11 14***

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

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**Chris Agius**

IECEx Secretary

|  |  |
| --- | --- |
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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 ExTL assessment report for

TUV Rheinland Taiwan Ltd

No.32, Zhonghe 2nd Rd., Daya Dist.,

42842 Taichung City, Taiwan

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 | 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 | X |
| Surveillance  | [ ]  |
| Re-assessment  | [ ]  |
| Scope extension | [ ]  |

## Details of body

### Country

IECEx TL: Chinese Taipei

(Associated IECExCB: Germany)

### Name of body

IECEx TL:

TUV Rheinland Taiwan Ltd

No.32, Zhonghe 2nd Rd., Daya Dist.,

42842 Taichung City, Taiwan

Associated IECEx CB:

TÜV Rheinland Industrie Service GmbH (abbr. TIS)
Am Grauen Stein

51105 Cologne / Germany

### Name and title of nominated principal contact

|  |  |  |
| --- | --- | --- |
| Name | Title | E-mail address |
| Klauspeter Graffi | Head of certification Body ATEX/IECEx Assessor for IECEx Scheme 02 and Scheme 05 | Klauspeter.Graffi@de.tuv.com |

## Assessment information

### Members of the assessment team

|  |  |
| --- | --- |
| Name  | Role  |
| Gordana Ostojic | IECEx Lead Assessor |

### Place(s) of assessment

Due to the COVID-19 pandemic related restrictions, the assessment is remotely carried out by using Microsoft Teams, IECEx OD-060 is applied for this assessment.

|  |  |
| --- | --- |
| N/A (remote audit) |  |

### Assessment date(s)

2021-5-17 (half day)

2021-5-18 (half day)

2021-5-19 (half day)

2021-5-20 (half day)

2021-5-21 (half day)

2021-5-25 (half day)

2022-07-13 (half day)

## Application information and background information on the assessment

Application received and reviewed by the Secretariat November 2019.

## Scopes

### ExCB scope for equipment certification scheme

The scope for the ExCB fully covers the scope of IECEx TL which is shown in Annex A.

### ExTL scope

This ExTL is not integral with an ExCB but works with TÜV Rheinland Industrie Service GmbH as their associated ExCB. The scope of the ExTL is included in Annex A.

### ATF Scope – N/A Change

### ExCB scope for Service Facilities Scheme – N/A

## ExCB scope for Conformity Mark Licensing Scheme – N/A

## ExCB scope for IECEx Personnel Competence Scheme – N/A

# Common information

## Legal entity of body

TÜV Rheinland Industrie Service GmbH is a private company with limited liability and share. TÜV Rheinland is registered by the "Handelsregisteramt B des Amtsgerichts Köln" under the HRB26876 number. The document was checked during the assessment and found to meet the requirements of the IECEx.

TUV Rheinland Taiwan Ltd is registered under Unified Business No. 22102327 in Taiwan.

## Financial support

## Under the TÜV Rheinland financial policies, the testing and certification activities of TÜV Rheinland are required to be run on a self-financing basis from the fees charged for their services.

## History

1872 Industrialists set up DÜV on their own initiative to safeguard their production facilities

1904 Automobile inspections and driving tests

1926 First laboratory for testing materials

1969 Product testing and certifications

1970 First subsidiary outside Germany

1970 TÜV Academy trains qualified personnel

1991 System certifications to international standards

2000 Security and quality in local and global data and communication networks

2002 ATEX Notified Body (NB)

2003 Fusion with TÜV Pfalz e. V. to TÜV Rheinland-Berlin Brandenburg Pfalz e. V.

2006 IECEx ExCB and ExTL

 Ultimately becoming the TÜV Rheinland Group

The TUV Rheinland Taiwan Ltd has been established in 1989 as Testing, inspection, and certification body. Now it has 300 to 400 people employed in 5 offices. Ex hazardous laboratory has been established in 2015.

## Documentation

### Quality manual

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

The quality manual MS-0000001\_de is for the complete TÜV Rheinland Group and the QME32for the Certification Body for product andaddresses IECEx certified equipment scheme procedure rules to IECEx 02.

### 2.4.2 Procedures

MS-0014244 Impartiality Management

MS-0028439 Equipment Calibration Traceability and Management in Greater China

MS-0003242 Supplier Evaluation

MS-0020834 Global Sample Management BS Products

MS-0036743 Control of data and information management in laboratory

MS-0020017 Document Control

MS-0031453-Spec02 Internal and External Audits in Greater China

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

### Work instructions

Working procedure for reference pressure determination – QMA3.103.02.17.

General Work process procedure for explosion-proof service – MS-0040993

The Work instructions are appropriate and meet the requirements of the IECEx Scheme 02.

### Records (including test records where relevant)

Records are held electronically only since November 2010. The work instruction for retention is provided in the QMA document Clause 7.3, generally 10 years of termination of production.

Before November 2010, the records are stored in Hard (paper) documents in the archives on Essen site.

The system meets the process requirements of OD 207. The overall system meets the requirements of IECEx system.

### Document change control

ETQ system is used for control of documents. Share point is used for all technical procedures/templates.

The system meets the requirements of IECEx.

## Confidentiality

All employees and members of committees sign confidentiality agreements when they start to work for TÜV Rheinland. Examples of these were sighted and found to meet the requirements of the IECEx.

There is a system of security control at the Archive entrance gate and entrance to buildings is controlled by key. In addition, the record stored electronically are protected by Windows access and password.

All employees of TUV Rheinland Taiwan Ltd shall sign “ACKNOWLEDGEMENT LETTER OF CONFIDENTIALITY” every three years.

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

<https://www.tuv.com/taiwan/en/>

For global website <https://www.tuv.com/>

## Recognitions and agreements

TÜV Rheinland has been accredited by DAKKS, which are the German Accreditation Bodies regarding ISO 17025 and ISO 17065.

There is an agreement:

- between TUV Rheinland Germany and TUV Rheinland Taiwan add The agreement was reviewed and found to meet the requirements of IECEx.

## Internal audit

There is an overall audit system for TÜV Rheinland, including at technical level with the Ex operations. TÜV Rheinland does have in place a method of regularly investigating existing testing activities.

Internal audits are done once a year add in consultation with TÜV Rheinland for each type of operation. The internal audit for IECEx to ISO/IEC 17025 and ISO/IEC 17065 was carried out from 2021-01-11 to 2021-01-13 and the relevant report was reviewed. Findings raised and the corrective actions were viewed and found to be satisfactory.

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

## Management review

There is an overall audit system for TÜV Rheinland, including at technical level with the Ex operations. TÜV Rheinland does have in place a method of regularly investigating existing testing activities.

The management review meeting report for 2020, signed on 2021-01-19, was reviewed. It included internal audits discussion, management review and evaluation of inputs/outputs, corrective actions/accreditation audits, customer satisfaction (including complaints).

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

## Contracting, subcontracting and witness testing

The requirements for contracts and subcontracting in the field of explosion-proof testing, as well as the requirements for testing in non-fixed locations (OD024) meets the requirements of IECEx.

### Contracting

There is currently no subcontracting in the field of explosion-protection testing and no testing in non-fixed locations for TÜV Rheinland Taiwan, Ltd.

### Subcontracting

TÜV Rheinland Taiwan does not subcontract any test in the field of explosion-protection testing within their scope.

### Off-site and Witness testing

The Off-site testing is described under the procedure MS-0001378, which refers to and provides details from OD024. The procedure OD024 will be followed if required.

## 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.

On regular basis there is training of people in the ExCB and ExTL on the operations, outcome of audits, revised standards and procedures related to IECEx. An example of a comprehensive training session presentation was shown and was found to meet the requirements of the IECEx.

There is a competency matrix for ExCB and ExTL. This was found to be satisfactory

Details of staff competencies are included in the site assessment report.

## Complaints and appeals (including appeals to IECEx)

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

The data base is Complaint Management under SAP CRM.

In the Procedures MS-0034557, there are special clauses to ensure that complaints regarding certified products, service, presentation of results, methods or any other subject are effectively dealt with. Also, to ensure that appeals and disputes in respect of certification activity and dealt with fairly and transparently. The procedures address the provision of appeals to IECEx, and the applicants are advised of this facility.

## Impartiality

It is defined and implemented in accordance with procedure MS-0014244 - Impartiality Management and meets the requirements of IECEx.

## Active involvement in development of Decision Sheets

## This activity is coordinated by TUV Rheinland Germany through regular meetings of all engineers and discussion about any technical issue including Decision sheets.

## 2.15 Special facts to be noted

None.

## Active involvement in development of Decision Sheets

This activity is coordinated by TUV Rheinland Germany through regular meetings of all engineers and discussion about any technical issue including Decision sheets.

## Supporting documentation

Copies of additional supporting information for this assessment have been provided to the applicant and the IECEx Secretariat. These are included in a site assessment report or provided separately and include:

* Details of issues raised and how these have been resolved
* Checklist for ISO/IEC 17025
* Completed Technical Capability Document (TCD)
* Photos of the facilities/tests witnessed are included in the above TCD
* Information on competencies
* Assessors’ notes

## Recommendations

Based on the assessment performed on 2021-05-17 to 2021-05-25 and 2022-07-13, TUV Rheinland Taiwan, is recommended for acceptance in the IECEx scheme as:

* An ExTL in the IECEx Certified Equipment Scheme

This is according to the scope of the standards listed in this document.

|  |
| --- |
| Gordana Ostojic |
| IECEx Lead Assessor |

Date: 2022-09-27

# ExCB for IECEx Certified Equipment Scheme – N/A (ExTL only)

#  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

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

## Candidate ExTL persons interviewed

|  |  |
| --- | --- |
| Name | Position |
| Yang Wang | Department Manager  |
| Morning Lee | Test Engineer |
| Weifeng Lin | Test Engineer |

## Associated ExCB(s)

TÜV Rheinland Industrie Service GmbH (abbr. TIS)
Am Grauen Stein

51105 Cologne / Germany

## Organisation

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

|  |  |  |
| --- | --- | --- |
| Name | Title | Experience (years) |
| Klauspeter Graffi | Head of certification Body ATEX/IECEx Assessor for IECEx Scheme 02 and Scheme 05 | 15 |
| Xiaolong Zhang | General Manager, Industrial Services & Cybersecurity Greater China | 10 |
| Yang Wang  | Department Manager | 11 |

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

|  |  |  |
| --- | --- | --- |
| Name | Title | Experience (years) |
| Klauspeter Graffi | Head of certification Body ATEX/IECEx Assessor for IECEx Scheme 02 and Scheme 05 | 15 |

### Other employees in ExTL activity

|  |  |  |
| --- | --- | --- |
| Name | Title/responsibility | Experience in Ex (years) |
| Yang Wang | Department Manager  | 11 |
| Morning Lee | Test Engineer | 8 |
| Weifeng Lin | Test Engineer | 5 |

## Organizational structure

Annex A is the Scope for IECEx TL – Certified Equipment Scheme

Annex B is the Organization chart.

## Resources

ExTL demonstrated that they have adequate resources, appropriate procedures, working instructions and test facilities for the proposed scope of Ex protected equipment under IECEx Scheme.

## 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 |
| 2019 | 2020 |
| IEC 60079-1 | Ex db | 12 | 11 | 23 |
| IEC 60079-7 | Ex eb, ec | 5 | 5 | 10 |
| IEC 60079-15 | Ex nA, nR | 1 | 0 | 1 |
| IEC 60079-31 | Ex tb, tc | 9 | 11 | 20 |

## National accreditation

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

## Calibration

All the equipment used in the explosion protection laboratory is sent to external Calibration providers that are accredited by TAF.

Their calibration system meets the requirements of ISO/IEC 17025 and IECEx.

##  Tests witnessed during the assessment visit

The following tests were witnessed during the assessment visit:

|  |  |  |  |
| --- | --- | --- | --- |
| Standard and edition | Clause number | Test | Comments |
| IEC 60079-0 Edition 7 | 26.4.5 | Water test IPX5 on Junction box | Satisfactory |
| IEC 60079-0 Edition 7 | 26.4.5 | Dust Test IP6X on Junction box | Satisfactory |
| IEC 60079-0 Edition 7 | 26.4.2; 26.4.4 | Impact Test of 7 J on Junction box | Satisfactory |
| IEC 60079-1 Edition 7 | 15.2.2 | Pressure determination test on flood light | Satisfactory |
| IEC 60079-1 Edition 7 | 15.2.3 | Over-pressure test  | Satisfactory |
| IEC 60079-1 Edition 7 | 15.3 | Non-Transmission test on test on flood light | Satisfactory |
| IEC 60079-0 Edition 7 | 26.5 | Temperature-rise test on LED light | Satisfactory |

## Participation in IECEx Proficiency Testing Programs

The ExTL applied for current PTB program for Flameproof joints measurements and for Small component ignition test. – Test Round 2021. Further the previous Test Round 2017 for Pressure determination was completed.

|  |  |  |
| --- | --- | --- |
| Year(s) of participation | IECEx Proficiency Testing program | General information about results |
| 2019 | Explosion pressure – Test Round 2017 | Satisfactory |
| 2021 | Flameproof joints | Enrolled |
| 2021 | Small component temperature | Enrolled |

## Comments (including issues found during assessment)

TUV Rheinland Taiwan has the necessary resources and quality system in place for their scope as an ExTL. There were some findings related to test records details and important verifications during testing. All issues were addressed to the satisfaction of the IECEx Assessor and now meet the requirements of the IECEx.

# ATF for IECEx Certified Equipment Scheme – N/A

# ExCB for Certified Service Facilities Scheme – N/A

# IECEx Conformity Mark Licensing Scheme – N/A

# ExCB for IECEx Personnel Competence Scheme -N/A

# Annexes

**Annex A****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  | Satisfactory. |
| IEC 60079-1Edition 7.0 | Explosive atmospheres - Part 1: Equipment protection by flameproofenclosures “d” | Satisfactory. |
| IEC 60079-7Edition 5.1 | Explosive atmospheres - Part 7: Equipment protection by increasedsafety "e" | Satisfactory. |
| IEC 60079-15Edition 5.0 | Explosive atmospheres – Part 15: Equipment protection by type of protection "n" | Satisfactory. |
| IEC 60079-31Edition 2.0 | Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t" | Satisfactory. |

* 1. Superseded standards – N/A
1. Overall Organisation Chart



1. Organisation Chart of ExCB/ExTL

See annex B.

1. Accreditation Certificate for ISO/IEC 17025

