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

**TITLE:** **Re-assessment Report for the continued acceptance** **of****Labtest Certification Inc an Accepted Certification Body (ExCB) and an Accepted Test Laboratory (ExTL) within the IECEx Equipment Scheme 02.**

**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 Reassessment Report for the continued acceptance of Labtest Certification Inc an Accepted Certification Body (ExCB) and an Accepted Test Laboratory (ExTL) within the IECEx Equipment Scheme 02.

This report is hereby submitted for endorsement during the 2023 ExMC Meeting.

***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 Scheme

Operational Document IECEx OD 501 for the Personnel Competence Scheme

IECEx ExCB/ExTL/ATF assessment report for LabTest Certification Inc

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

CONTENTS

(Update when report is complete – by right click, Update field, Update entire table)

[1 Assessment information 6](#_Toc140502506)

[1.1 Type of body covered by this assessment: 6](#_Toc140502507)

[1.2 Type of assessment: 6](#_Toc140502508)

[1.3 Details of body 6](#_Toc140502509)

[1.3.1 Country 6](#_Toc140502510)

[1.3.2 Name of body 6](#_Toc140502511)

[1.3.3 Name and title of nominated principal contact 6](#_Toc140502512)

[1.4 Assessment information 6](#_Toc140502513)

[1.4.1 Members of the assessment team 6](#_Toc140502514)

[1.4.2 Place(s) of assessment 6](#_Toc140502515)

[1.4.3 Assessment date(s) 6](#_Toc140502516)

[1.5 Application information and background information on the assessment 7](#_Toc140502517)

[1.6 Scopes 7](#_Toc140502518)

[1.6.1 ExCB scope for equipment certification scheme 7](#_Toc140502519)

[1.6.2 ExTL scope 7](#_Toc140502520)

[1.7 ExCB scope for Conformity Mark Licensing Scheme 7](#_Toc140502521)

[2 Common information 7](#_Toc140502522)

[2.1 Legal entity of body 7](#_Toc140502523)

[2.2 History 7](#_Toc140502524)

[2.3 Documentation 7](#_Toc140502525)

[2.3.1 Quality manual 7](#_Toc140502526)

[2.3.2 Procedures 7](#_Toc140502527)

[2.3.3 Work instructions 8](#_Toc140502528)

[2.3.4 Records (including test records where relevant) 8](#_Toc140502529)

[2.3.5 Document change control 8](#_Toc140502530)

[2.4 Confidentiality 8](#_Toc140502531)

[2.5 Communication with public and customers (Hard copy and Electronic) 8](#_Toc140502532)

[2.6 Recognitions and agreements 8](#_Toc140502533)

[2.7 Internal audit 8](#_Toc140502534)

[2.8 Management review 8](#_Toc140502535)

[2.9 Contracting, subcontracting and witness testing 8](#_Toc140502536)

[2.9.1 Contracting 8](#_Toc140502537)

[2.9.2 Subcontracting 9](#_Toc140502538)

[2.9.3 Off-site and Witness testing 9](#_Toc140502539)

[2.10 Training and competence 9](#_Toc140502540)

[2.11 Complaints and appeals (including appeals to IECEx) 9](#_Toc140502541)

[2.12 Impartiality 9](#_Toc140502542)

[2.13 Active involvement in development of Decision Sheets 9](#_Toc140502543)

[2.14 Special facts to be noted 9](#_Toc140502544)

[2.15 Supporting documentation 9](#_Toc140502545)

[2.16 Recommendations 10](#_Toc140502546)

[3 ExCB for IECEx Certified Equipment Scheme 11](#_Toc140502547)

[3.1 Assessment references 11](#_Toc140502548)

[3.1.1 General references 11](#_Toc140502549)

[3.1.2 Additional references applied for this assessment 11](#_Toc140502550)

[3.2 Candidate ExCB persons interviewed 11](#_Toc140502551)

[3.3 Associated ExTL(s) 11](#_Toc140502552)

[3.4 Associated certification functions 11](#_Toc140502553)

[3.5 National marks and certificates 11](#_Toc140502554)

[3.6 Standards accepted 12](#_Toc140502555)

[3.7 National differences to IEC standards 12](#_Toc140502556)

[3.8 Organisation 12](#_Toc140502557)

[3.8.1 Names, titles and experience of the senior executives 12](#_Toc140502558)

[3.8.2 Name, title and experience of the quality management representative 12](#_Toc140502559)

[3.8.3 Name and title of signatories for certification 12](#_Toc140502560)

[3.8.4 Other employees in ExCB activity 12](#_Toc140502561)

[3.9 Organizational structure 12](#_Toc140502562)

[3.10 Indemnity insurance 12](#_Toc140502563)

[3.11 Resources 13](#_Toc140502564)

[3.12 Committees (such as governing or advisory boards) 13](#_Toc140502565)

[3.13 Certification operations 13](#_Toc140502566)

[3.13.1 National approval/certification methods 13](#_Toc140502567)

[3.13.2 Certification policy 13](#_Toc140502568)

[3.13.3 Application for certification 13](#_Toc140502569)

[3.13.4 Certification decision 13](#_Toc140502570)

[3.13.5 Suspension and cancellation of certificates 13](#_Toc140502571)

[3.14 Certificates issued 13](#_Toc140502572)

[3.15 National accreditation 14](#_Toc140502573)

[3.16 Assessment of manufacturers and issue of QARs 14](#_Toc140502574)

[3.17 Comments (including issues found during assessment) 14](#_Toc140502575)

[4 ExTL for IECEx Certified Equipment Scheme 16](#_Toc140502576)

[4.1 Assessment references 16](#_Toc140502577)

[4.1.1 General references 16](#_Toc140502578)

[4.1.2 Additional references applied for this assessment 16](#_Toc140502579)

[4.2 Candidate ExTL persons interviewed 16](#_Toc140502580)

[4.3 Associated ExCB(s) 16](#_Toc140502581)

[4.4 Organisation 16](#_Toc140502582)

[4.4.1 Names, titles and experience of the senior executives 16](#_Toc140502583)

[4.4.2 Name, title and experience of the quality management representative 16](#_Toc140502584)

[4.4.3 Other employees in ExTL activity 16](#_Toc140502585)

[4.5 Organizational structure 17](#_Toc140502586)

[4.6 Resources 17](#_Toc140502587)

[4.7 Test reports issued 17](#_Toc140502588)

[4.8 National accreditation 18](#_Toc140502589)

[4.9 Calibration 18](#_Toc140502590)

[4.10 Tests witnessed during the assessment visit 18](#_Toc140502591)

[4.11 Participation in IECEx Proficiency Testing Programs 18](#_Toc140502592)

[4.12 Comments (including issues found during assessment) 19](#_Toc140502593)

[5 Annexes 19](#_Toc140502594)

[Annex A Scope for IECEx Certified Equipment Scheme 20](#_Toc140502595)

[A.1 Current standards 20](#_Toc140502596)

[A.2 Superseded standards 21](#_Toc140502597)

[Annex B Overall Organisation Chart 22](#_Toc140502598)

[Annex C Organisation Chart of ExCB/ExTL/ATF 23](#_Toc140502599)

[Annex D Accreditation Certificate for ISO/IEC 17065 24](#_Toc140502600)

[Annex E Accreditation Certificate for ISO/IEC 17025 25](#_Toc140502601)

[E.1 25](#_Toc140502602)

# 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

Canada

### Name of body

Labtest Certification Inc.

### Name and title of nominated principal contact

|  |  |  |
| --- | --- | --- |
| Name | Title | E-mail address |
| Kavinder Dhillon | President, CB Mgr | kdhillon@labtestcert.com |

## Assessment information

### Members of the assessment team

|  |  |
| --- | --- |
| Name | Role |
| Bernard PIQUETTE | IECEx Lead Assessor |
| Klauspeter GRAFFI | IECEx Expert Assessor |

### Place(s) of assessment

|  |  |
| --- | --- |
| 205 – 8291 92 Street, Delta BC, V4G 0A4, Canada |  |

### Assessment date(s)

March 27-29, 2023

## Application information and background information on the assessment

## Scopes

### ExCB scope for equipment certification scheme

The scope for the ExCB is shown in Annex A.

### ExTL scope

The ExTL scope is the same as for the ExCB.

## ExCB scope for Conformity Mark Licensing Scheme

Labtest Certification Inc. is not in the Mark Licensing scheme.

# Common information

## Legal entity of body

Labtest Certification Inc. is incorporated under the laws of British Columbia, Canada, under the number 673313 since July 11th, 2003. The document was reviewed during the assessment and found to meet the requirements of the IECEx Financial support

LABTEST Certification Inc. is self-financed by its income from testing, certification, and inspections.

## History

Labtest Certification Inc. was incorporated under the laws of British Columbia, Canada, July 2003. Its principal line of business was product safety testing, soon after the incorporation Labtest Certification Inc. was qualified and accepted as testing subcontractor by several international certification bodies. (CSA, UL, TÜV Rheinland and SÜD, and DNV).

In February 2007. Labtest Certification Inc. was accredited by International Accreditation Service (IAS) for electrical safety, EMC, environmental & energy, and maritime product evaluation and testing to ISO 17025.

In July 2007, Labtest Certification Inc. was accredited by the Standard Council of Canada (SCC) for electrical safety certification under ISO 17065, in April 2011 Labtest Certification Inc. acquired accreditation to ISO 17020 as an Inspection Body.

## Documentation

### Quality manual

There are two quality manuals. One is related to certification and inspection (ISO/IEC 17065), the other quality manual concerns testing and evaluation (ISO/IEC 17025).

• Document DCN 2001 Rev 31 : Policy Manual Certification and Inspection. This manual is dealing with the requirements of ISO/IEC 17065 and ISO/IEC 17020.

• Document DCN 1003 Rev 34 : Policy Manual Laboratory Program Testing and Evaluation

The quality manual, sub-manuals, procedures, forms, etc, are available to all personnel through a web interface. The latest version document is available, and documents are protected from alteration. Search function is provided by document number or keyword.

The two Quality Manuals were checked and found to meet the requirements of the IECEx System

### Procedures

The procedures are numbered with a 2000 series for the certification and with a 1000 series for the testing.

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

### Work instructions

Work instructions are included in the procedures.

### Records (including test records where relevant)

All records are in Onedrive cloud server. Records are retained according to retention policy based on type of record.

Test records and projects are maintained on a secured site password protected and accessible by authorized persons only.

According to procedure DCN 1080 records will be kept for more than 10 years.

The records storage system was found to meet the requirements of IECEx recommendations in OD 207 Guidance on the Retention of Records

### Document change control

DCN1027 defines the method for controlling and modifying all internally issued processing procedures documents, records and control of external product standards in the Quality System

The procedure was reviewed during the assessment and found to meet the requirements of the IECEx.

The document change control system meets the requirements of IECEx

## Confidentiality

The confidentiality issue is described in DCN 2001 quality manual in chapter 4.10. Several documents are available such as DCN 1069 Employee Agreement, DCN1018 E NDAs, DCN 1019 Subcontractor Agreement and DCN 1039 Service Agreement, dealing with confidentiality.

Confidentiality agreements were checked during the assessment and found to meet the requirements of the IECEx.

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

Labtest Certification Inc. Inc. is presented on the Internet under [www.labtestcert.com](file:///\\iscdc01\Public\IECEx_System%20(1)\IECEx_Current\ASSESSMENTS_Completed_Re-assessments_Surveillance_Extensions\2023\Labtest\Final%20docs\www.labtestcert.com). Printed brochures are available as well.

## Recognitions and agreements

There are presently two agreements in the area of Ex. DNV (Norway), Intertek UK.

## Internal audit

Internal audits are described in the DCN 2001 quality manual in chapter 8.6. DCN 2010 Rev 8 describes the procedure. An audit plan according DCN 1020 and 1020.1 is followed annually. The last Internal audit performed in August 2022 has been reviewed and found complying with the IECEx requirements.

## Management review

Management reviews are described in the DCN 2001 Cl. 8 and are held every year. The minutes are recorded in DCN 1030 rev 9 Form. The last management review took place on November 29, 2022. Minutes of this management review were reviewed and found complying with the IECEx requirements.

## Contracting, subcontracting and witness testing

### Contracting

DCN 1003 Chapter 6.6, describe the process of contracting and subcontracting.

### Subcontracting

Labtest Certification Inc. does not subcontract any work related to any standard in Labtest’s scope within the IECEx Scheme program.

### Off-site and Witness testing

DCN 1003 Chapter 6.6 and DCN 1053 describe the process of Off-site and Witness testing.

## Training and competence

The issue of training is described in the DCN 2001 quality manual in chapter 6.1.2 and in DCN 1003 chapter 6.2. Training is recorded in DCN 1040 for each employee.

Training records were reviewed and found complying with the IECEx rules

Competences are managed through the Capability Database 3015 and summarized in DCN 3049.

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

The system indicates the competence of the staff, and their competency was verified during the assessment as meeting the requirements of IECEx.

## Complaints and appeals (including appeals to IECEx)

Procedure for Complaints and appeals related to IECEx is described in DCN 2029 and include reference to the IEC board of appeal. So far, no complaints have been reported.

## Impartiality

DCN 2032 Risk to Impartiality. Other documents addressing impartiality are the DCN 1069 for employees and DCN 1039 for contractors. Based on DCN 2032, an annual review is performed helping to identify possible risks and impartiality situations. The last review was performed on January 25th, 2023.

The system was found to meet the requirements of IECEx.

## Active involvement in development of Decision Sheets

Labtest Certification Inc. has a system, in Document DCN 2029, rev. 3, November 2018, that covers updates and comments on ExTAG documents. The document was reviewed and found to meet the requirements of the IECEx.

## 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

## Recommendations

Based on the assessment performed on March 27-29, 2023, Labtest Certification Inc. is recommended for continued acceptance in the IECEx scheme as:

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

This is according to the scope of the standards listed in this document. All issues raised during the assessment were resolved to the satisfaction of the assessment team.

|  |  |
| --- | --- |
| Bernard PIQUETTE | Klauspeter GRAFFI |
| IECEx Lead Assessor | IECEx Expert Assessor |

Date: 2023-06-05

# 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)

### Additional references applied for this assessment

IECEx OD 280 - Guide to Certification of Non-electrical Equipment and Protective Systems

## Candidate ExCB persons interviewed

|  |  |
| --- | --- |
| Name | Position |
| Rajinder S. Atwal | Quality Manager |
| Kavinder Dhillon | Deputy Quality Manager |

## Associated ExTL(s)

The ExTL is integral with the ExCB.

## Associated certification functions

EMC (Industry Canada)

EMC (FCC testing)

SRCC (Solar panels)

SCC (Sanitary equipment)

SCC (Gas appliances)

SCC (Energy efficiency)

.

## National marks and certificates

LC Certification Mark belongs to LABTEST CERTIFICATION INC. and is recognized by the Standards Council of Canada

A picture containing text, clipart

Description automatically generated

EMC (Industry Canada)

EMC (FCC Testing)

## Standards accepted

See clause 1.6.1 of this report referring to Annex A

## National differences to IEC standards

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

## Organisation

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

|  |  |  |
| --- | --- | --- |
| Name | Title | Experience (years) |
| Kavinder Dhillon | President | +21 years in Ex, +24 years Certification and testing, considerable managerial experience operating accredited organization. |

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

|  |  |  |
| --- | --- | --- |
| Name | Title | Experience (years) |
| Rajinder S. Atwal | Quality Manager | 6 years EMC Testing, 10 years in Quality ISO 9001/17025 |
| Kavinder Dhillon | Deputy Quality Manager | +23 years in Ex, +25 years Certification and Testing, considerable managerial experience operating accredited organization. |

### Name and title of signatories for certification

|  |  |  |
| --- | --- | --- |
| Name | Title | Comments |
| Kavinder Dhillon | Certification manager | kdhillon@labtestcert.com |

### Other employees in ExCB activity

|  |  |  |
| --- | --- | --- |
| Name | Title | Experience in Ex (years) |
| Andrew Bagnall | Reviewer | 10 years |
| Nikola Trotzuk | Test Technician | 2 years |
| Marin Banu | Reviewer | 10+ years |
| Behzad Nejad | Project holder | 10+ years |
| Mark Coppler | Project holder | 10+ years |
| Colin Bagnall | Project holder/tester | 4 years |

## Organizational structure

See Organisation Charts in Annex B & C (overall and IECEx specific)

## Indemnity insurance

LABTEST Certification Inc. holds a "Professional Liability Insurance Policy" from Lloyd’s through HUB International Insurance Brokers (TOS). The number is 10037091 and is valid until 24.4.2023. The document was presented during the assessment and found to meet the requirements of the IECEx.

## Resources

Labtest Certification Inc. has an adequate number of staff for the current level of business. They are experienced in Ex activities – a competence matrix is included in F004. The testing equipment is suitable for the range of tests carried out in house.

Labtest Certification Inc. use some contractors. Contracts have been reviewed during the assessment and found complying the IECEx rules

Contractors are listed in the competence matrix

## Committees (such as governing or advisory boards)

Labtest Certification Inc. is member of the Canadian Advisory Council on Electrical Safety (CACES) which is the National board for the application of the National Electrical Code in Canada

Labtest Certification Inc. dispose also of the LabTest Certification Advisory Committee (LCAC) which is in charge to control the impartiality of the LabTest Certification Program;

The LCAC consist of three members. All members signed an agreement including a confidentiality declaration. The last annual meeting was performed on 25.01.2023.

## Certification operations

### National approval/certification methods

There is a National Certification Body Program for hazardous locations equipment according to the Standards Council of Canada. This follows a similar procedure to that for IECEx scheme.

### Certification policy

The Certification policy is defined in DCN 2001 Policy Manual, Certification. This document address in particular the management of impartiality and the confidentiality.

The Policy was reviewed during the assessment and found to meet the requirements of the IECEx scheme.

### Application for certification

The applicant can ask for an application for certification by using the application forms DCN 3004 and DCN 3040. Once an application has been received, a quote or estimate and lead-time are provided to the applicant

### Certification decision

Certification decision is described in the 2001 Policy Manual in chapter 7.6, DCN 2015 Certification program and DCN 2029 IECEx program. The documents were reviewed during the assessment and found to meet the requirements of the IECEx.

### Suspension and cancellation of certificates

Suspension and cancellation of certificates are addressed in DCN 2015 Certification program and DCN 2029 IECEx program. The documents were reviewed during the assessment and found to meet the requirements of the IECEx.

## Certificates issued

Number of certificates issued under for the preceding two years for each type of protection:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Standard numbers | Type of protection or other identifying information | Number of issued certificates (for last 2 years) | | Total |
| 2021 | 2022 |
| 60079-0, -11, -28 | Project 19989 – ia, op, is | 8 |  | 8 |
| 60079-0, -6, -7 | Project LV-15315 – o, e, db |  | 1 | 1 |
| 60079-0, -6, -7 | Project LV-15488 – o, e, db |  | 1 | 1 |
| 60079-0, -6, -7 | Project 19569 – o, e |  | 1 | 1 |
| 60079-0, -6, -7 | Project LV-15315 – o, e, db |  | 1 | 1 |
| 60079-0, -6, -7 | Project LV-15488 – o, e, db |  | 1 | 1 |
| 60079-0, -1, -28 | Project LV-15412 – db, op, is | 1 |  | 1 |
| 60079-0, -7, -11 | Project LV-15291 – e, i | 1 |  | 1 |
| 60079-0, -1, -11 | Project LV-14522 – db, ib | 1 |  | 1 |
| 60079-0, -7 | Project 20776 - ec | 1 |  | 1 |
| 60079-0, -15 | Project 20413 - nA | 1 |  | 1 |
| 60079-0, -11, -28 | Projects 20414 – ia, op, is | 2 | 1 | 3 |
| 60079-0, -11, -28 | Projects 20414A to 20414I – ia, op, is | 7 | 3 | 10 |
| 60079-0, -11 | Project 16603 - ia | 1 |  | 1 |
| 60079-0, -7, -11 | Project LV-15224B – e, i | 1 |  | 1 |
| 60079-0, -2 | Project 17003A - pxb | 1 |  | 1 |
| 60079-0, -7, -11 | Project LV-15593 – e, i | 1 |  | 1 |
| 60079-0, -7, -31 | Project LV-14586 – e, t |  | 1 | 1 |
| 60079-0, -11 | Project LV-15683 - ib |  | 1 | 1 |
| 60079-0, -2, -7, -11, -15, -18, -46  ISO 80079-36 | Project T-22048 – e, I, p, m, n |  | 1 | 1 |
|  |  |  |  |  |

## National accreditation

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

Labtest Certification Inc. is accredited by the Standards Council of Canada (SCC). Copies of the accreditation certificates are shown in the Annex D. The SCC accredits against ISO/IEC 17065 and their website indicates the accreditation is active and in good standing.

## Assessment of manufacturers and issue of QARs

The Assessment of manufacturers and issue of QAR is addressed in DCN 2029 IECEx program.

DCN 2007-1 specifies requirements for the virtual inspection conform to the requirements of OD 060

Files were reviewed during the assessment and found to meet the requirements of the IECEx. Details of the QARs are listed in the on-site assessment report F004.

## Comments (including issues found during assessment)

Issues were raised during the site assessment requiring action. These were cleared to the satisfaction of the assessment team. Details of issues and how these have been resolved are listed in the site assessment report.

These included:

* Application of OD 024
* Competency validation
* Monitoring of issued QARs
* Consistency between the ExTR cover page and the rest of the report
* Competence matrix

# 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 280 - Guide to Certification of Non-electrical Equipment and Protective Systems

## Candidate ExTL persons interviewed

|  |  |
| --- | --- |
| Name | Position |
| Rajinder S. Atwal | Quality Manager |
| Kavinder Dhillon | Deputy Quality Manager |

## Associated ExCB(s)

The ExTL is integral with the ExCB.

## Organisation

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

|  |  |  |
| --- | --- | --- |
| Name | Title | Experience (years) |
| Kavinder Dhillon | President | +21 years in Ex, +24 years Certification and testing, considerable managerial experience operating accredited organization. |

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

|  |  |  |
| --- | --- | --- |
| Name | Title | Experience (years) |
| Rajinder S. Atwal | Quality Manager | 6 years EMC Testing, 10 years in Quality ISO 9001/17025 |
| Kavinder Dhillon | Deputy Quality Manager | +23 years in Ex, +25 years Certification and Testing, considerable managerial experience operating accredited organization. |

### Other employees in ExTL activity

|  |  |  |
| --- | --- | --- |
| Name | Title | Experience in Ex (years) |
| Andrew Bagnall | Reviewer | 10 years |
| Nikola Trotzuk | Test Technician | 2 years |
| Marin Banu | Reviewer | 10+ years |
| Behzad Nejad | Project holder | 10+ years |
| Mark Coppler | Project holder | 10+ years |
| Colin Bagnall | Project holder/tester | 4 years |

## Organizational structure

Organisation Charts in Annex B & C (overall and IECEx specific)

## Resources

Labtest Certification Inc. has an adequate number of staff for the current level of business. They are experienced in Ex activities – a competence matrix is included in F004. The testing equipment is suitable for the range of tests carried out in house.

Labtest Certification Inc. use some contractors. Contracts have been reviewed during the assessment and found complying the IECEx rules

Contractors are listed in the competence matrix

## Test reports issued

Number of test reports (ExTRs) issued under for the preceding two years for each type of protection.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Standard numbers | Type of protection or other identifying information | Number of issued reports (ExTRs) (for last 2 years) | | Total |
| 2021 | 2022 |
| 60079-0, -11, -28 | Project 19989 – ia, op, is | 32 |  | 32 |
| 60079-0, -6, -7 | Project LV-15315 – o, e, db | 4 | 4 | 8 |
| 60079-0, -6, -7 | Project LV-15488 – o, e, db | 4 | 4 | 8 |
| 60079-0, -6, -7 | Project 19569 – o, e | 4 |  | 4 |
| 60079-0, -6, -7 | Project LV-15315 – o, e, db | 4 | 4 | 8 |
| 60079-0, -6, -7 | Project LV-15488 – o, e, db | 4 | 4 | 8 |
| 60079-0, -1, -28 | Project LV-15412 – db, op, is | 4 |  | 4 |
| 60079-0, -7, -11 | Project LV-15291 – e, i | 4 |  | 4 |
| 60079-0, -1, -11 | Project LV-14522 – db, ib | 4 |  | 4 |
| 60079-0, -7 | Project 20776 - ec | 3 | 6 | 9 |
| 60079-0, -15 | Project 20413 - nA | 3 |  | 3 |
| 60079-0, -11, -28 | Projects 20414 – ia, op, is | 4 |  | 4 |
| 60079-0, -11, -28 | Projects 20414A to 20414I – ia, op, is | 32 | 12 | 44 |
| 60079-0, -11 | Project 16603 - ia | 3 |  | 3 |
| 60079-0, -7, -11 | Project LV-15224B – e, i | 4 |  | 4 |
| 60079-0, -2 | Project 17003A - pxb | 3 |  | 3 |
| 60079-0, -7, -11 | Project LV-15593 – e, i | 4 |  | 4 |
| 60079-0, -11 | Project LV-15683 - ib |  | 3 | 3 |
| 60079-0, -2, -7, -11, -15, -18, -46  ISO 80079-36 | Project T-22048 – e, I, p, m, n |  | 6 | 6 |

## National accreditation

Labtest Certification Inc is accredited according to ISO/IEC 17025 by International Accreditation Services (IAS).

Labtest Certification Inc benefit of a flexible scope. The detailed scope of accreditation is managed in DCN 3020.

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

## Calibration

Calibration is described in DCN 1046. Equipment is calibrated by external calibration suppliers. Calibrations are done by accredited 17025 Calibration Laboratories identified in the “Approved Suppliers Database” under the Approved Suppliers section. There is a calibration database for verification of calibration and information about recalibration. The database was reviewed during the assessment as well as the recalibration process and calibration tags on the instruments. It fulfills the requirements of the 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: 2017 General Requirements | 26.13 | Surface resistance test of part of enclosure of non-metallic enclosure | Acceptable |
|  | 26.4.5 | Degree of protection (IP) by enclosures | Acceptable |
|  | 26.14 | Measurement of capacitance | Acceptable |
| IEC 60079-1: 2014 Flameproof enclosures ‘d’ | 15.2.2 | Determination of explosion pressure | Acceptable |
| IEC 60079-7: 2015 Increased Safety ‘e’ | 6.3.4.1.1 | Level of Protection “eb”, rectification test | Acceptable |
| IEC 60079-11: 2011 Intrinsic Safety ‘i’ | 10.1 | Spark ignition | Acceptable |
|  | 10.5.3 | Spark ignition and surface temperature of cells and batteries | Acceptable |
| IEC 60079-18: 2014 Encapsulation | 8.1.2 | Dielectric strength | Acceptable |
| IEC 60079-15: 2017 Type of protection “n” | 11.2.3 | Leakage tests on sealed devices | Acceptable |
| IEC 60079-31: 2013 Protection by enclosure “t” | 6.1.2 | Thermal tests | Acceptable |

## Participation in IECEx Proficiency Testing Programs

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

NOTE 1 It is anticipated that the IECEx Secretariat will provide the assessment team with information on the performance of the body in completed PTB Ex PT Scheme programs.

NOTE 2 Assessor should ask what is being done about results. This includes what has happened when testing process changed as result of a program, eg could look at management review agenda/minutes

|  |  |  |
| --- | --- | --- |
| Year(s) of participation | IECEx Proficiency Testing program | General information about results |
| 2019 | Program 9 “Battery Testing” | No Remark |
| 2019 | Program 10 “Tests of Enclosures” | No Remark |
| 2020 | Program 11 “flameproof joints” | No Remark |
| 2020 | Program 12 “small components temperature” | No Remark |

Labtest Certification Inc. is registered for the proficiency program 2023

## Comments (including issues found during assessment)

Issues were raised during the site assessment requiring action. These were cleared to the satisfaction of the assessment team. Details of issues and how these have been resolved are listed in the site assessment report.

These included:

* Scope of accreditation
* Training
* Availability of test equipment
* Adequacy of test equipment

# Annexes

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

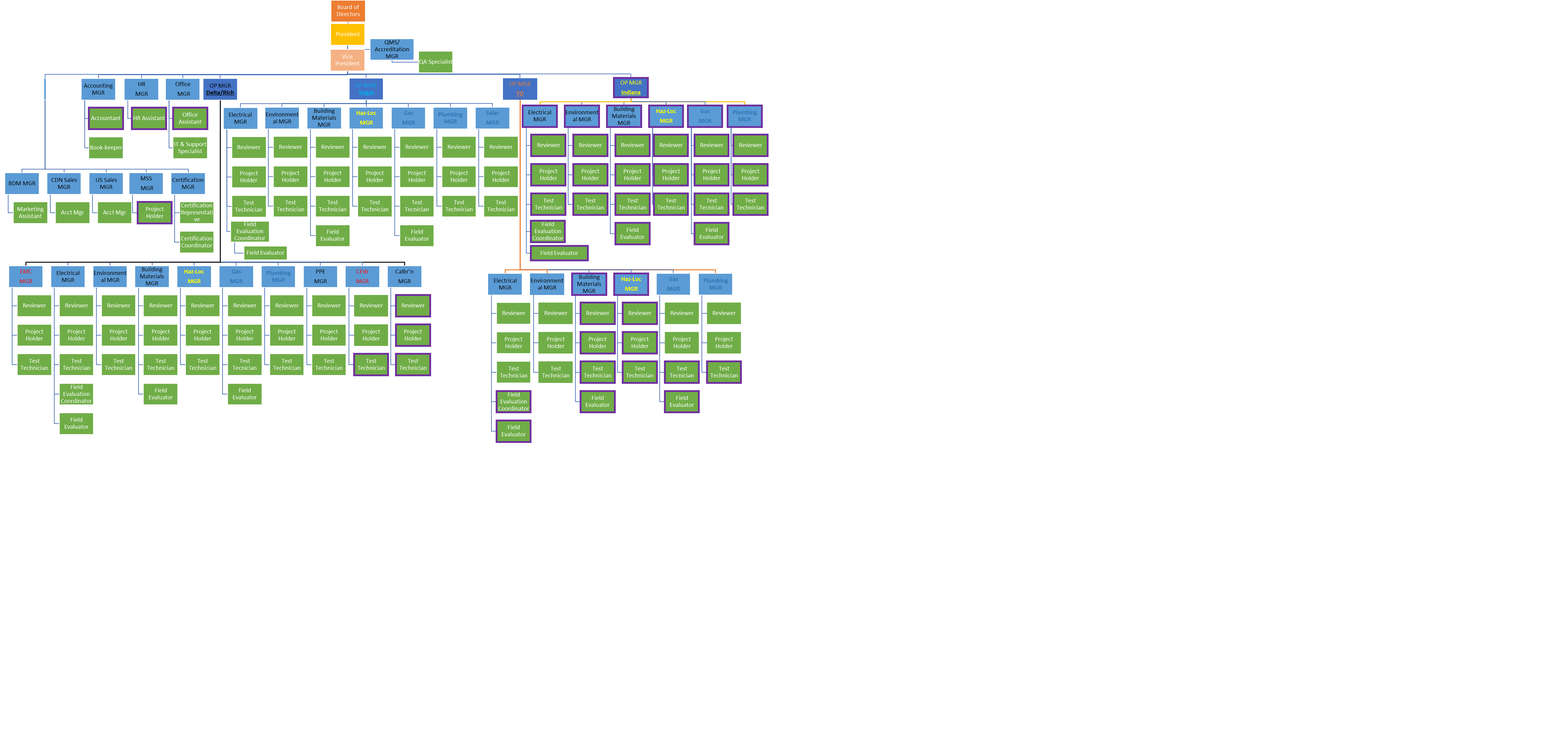
| Number | Title | Comments |
| --- | --- | --- |
| IEC 60079-0  Edition 7.0 | Explosive atmospheres - Part 0: Equipment - General requirements | Y |
| IEC 60079-1  Edition 7.0 | Explosive atmospheres - Part 1: Equipment protection by flameproof  enclosures “d” | Y |
| IEC 60079-2  Edition 6.0 | Explosive atmospheres - Part 2: Equipment protection by pressurized  enclosure “p’ | Y |
| IEC 60079-6  Edition 4.1 | Explosive atmospheres - Part 6: Equipment protection by oil immersion “o” | Y |
| IEC 60079-7  Edition 5.1 | Explosive atmospheres - Part 7: Equipment protection by increased  safety "e" | Y |
| IEC 60079-11  Edition 6.0 | Explosive atmospheres - Part 11: Equipment protection by intrinsic safety “i” | Y |
| IEC 60079-13  Edition 2.0 | Explosive atmospheres -  Part 13: Equipment protection by pressurized room "p" and artificially ventilated room "v" | Y |
| IEC 60079-15  Edition 5.0 | Explosive atmospheres – Part 15: Equipment protection by type of protection "n" | Y |
| IEC 60079-18  Edition 4.1 | Explosive atmospheres – Part 18: Equipment protection by encapsulation “m” | Y |
| IEC 60079-25  Edition 3.0 | Explosive atmospheres – Part 25: Intrinsically safe electrical systems | Y |
| IEC 60079-26  Edition 3.0 | Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga | Y |
| IEC 60079-28  Edition 2.0 | Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation | Y |
| IEC/IEEE 60079-30-1  Edition 1.0 | Explosive atmospheres – Part 30-1: Electrical resistance trace heating – General and testing requirements | Y |
| IEC 60079-31  Edition 2.0 | Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t" | Y |
| IEC 60079-33  Edition 1.0 | Explosive atmospheres – Part 33: Equipment protection by special protection “s” |  |
| IS0 80079-36  Edition 1.0 | Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres – Basic method and requirements | Y |
| 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” | Y |
| IEC TS 60079-46  Edition 1.0 | Explosive atmospheres – Part 46 - Equipment assemblies | Y |

* 1. Superseded standards

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

| Number | Title | Comments |
| --- | --- | --- |
| IECEx DS2015/001A  2015 10 09 | Equipment assemblies | Y |

1. Overall Organisation Chart



1. Organisation Chart of ExCB/ExTL/ATF

Diagram

Description automatically generated

1. Accreditation Certificate for ISO/IEC 17065



1. Accreditation Certificate for ISO/IEC 17025

