**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** **NCC Certificações do Brasil Ltda. (NCC) an Accepted ExCB within the IECEx Equipment Scheme 02 and the IECEx Certified Service Facility 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 Reassessment Report for the continued acceptance of NCC Certificações do Brasil Ltda. (NCC) an Accepted ExCB within the IECEx Equipment Scheme 02 and the IECEx Certified Service Facility Scheme, 03.

This report is hereby submitted for endorsement during the 2022 ExMC Meeting.

***Chris Agius***

**IECEx Secretariat**

|  |  |
| --- | --- |
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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 assessment report for   
  
NCC Certificações do Brasil Ltda.

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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# Assessment information

## Type of body covered by this assessment:

<Check appropriate boxes>

|  |  |
| --- | --- |
| 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:

<Check appropriate boxes>

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

## Details of body

### Country

BRASIL

### Name of body

NCC Certificações do Brasil Ltda. (NCC)

### Name and title of nominated principal contact

|  |  |  |
| --- | --- | --- |
| Name | Title | E-mail address |
| Wilson Bonato | Technical Manager | wilson.bonato@ncc.com.br |

## Assessment information

### Members of the assessment team

|  |  |
| --- | --- |
| Name | Role |
| Thierry HOUEIX | IECEx Lead Assessor |

### Place(s) of assessment

|  |  |
| --- | --- |
| NCC Certificações do Brasil Ltda.  By remote assessment | Av. Orosimbo Maia, 360, 1º Andar Campinas/SP, ZIP: 13010-211, Brasil |

### Assessment date(s)

For IECEx 02 and IECEx 03-5 Remote assessment conducted according to IECEx OD 060 on 10-13 January 2022, plus follow up reviews.

## Application information and background information on the assessment

This was a re-assessment for their continuance as an IECEx CB. NCC are continuing to operate during the pandemic with necessary procedures for staff and operations.

## Scopes

### ExCB & ExTL scope for IECEx Equipment Scheme

| **Number** | **Title** | ExCB/ExTL |
| --- | --- | --- |
| IEC 60079-0 Ed. 6 | Explosive atmospheres – Part 0: Equipment – General requirements | Included |
| IEC 60079-1 Ed. 7 | Explosive atmospheres – Part 1: Equipment protection by flameproof enclosures “d” | Included |
| IEC 60079-2 Ed. 5 | Explosive atmospheres – Part 2: Equipment protection by pressurized enclosure «p» | Included |
| IEC 60079-5 Ed. 3 | Explosive atmospheres – Part 5: Equipment protection by powder filling «q» | Included |
| IEC 60079-6 Ed. 3 | Explosive atmospheres – Part 6: Equipment protection by oil immersion «o» | Included |
| IEC 60079-7 Ed. 4 | Explosive atmospheres – Part 7: Equipment protection by increased safety “e” | Included |
| IEC 60079-11 Ed. 6 | Explosive atmospheres – Part 11: Equipment protection by intrinsic safety “i” | Included |
| IEC 60079-13 Ed. 1 | Explosive atmospheres – Part 13: Equipment protection by pressurized room ‘p’ | Not included |
| IEC 60079-15 Ed. 4 | Explosive atmospheres – Part 15: Equipment protection by type of protection “n” | Included |
| IEC/TR 60079-16 | Explosive atmospheres – Part 16: Artificial ventilation for the protection of analyser (s) houses | Not included |
| IEC 60079-18 Ed. 3 | Explosive atmospheres – Part 18: Equipment protection by encapsulation “m” | Included |
| IEC 60079-25 Ed. 2 | Explosive atmospheres – Part 25: Intrinsically safe electrical systems | Included |
| IEC 60079-26 Ed. 2 | Explosive atmospheres – Part 26: Equipment with equipment protection level (EPL) Ga | Included |
| \*IEC 60079-27 Ed. 1 | Explosive atmospheres – Part 27: Fieldbus intrinsically safe concept (FISCO) | Not included |
| IEC 60079-28 Ed. 2 | Explosive atmospheres – Part 28: Protection of equipment and transmission systems using optical radiation | Not included |
| IEC 60079-29-1 Ed. 1 | Explosive atmospheres – Part 29-1: Gas detectors – Performance requirements of detectors for flammable gases | Not included |
| IEC 60079-29-4 | Explosive atmospheres – Part 29-4: Gas detectors – Performance requirements of open path detectors for flammable gases | Not included |
| IEC/IEEE 60079-30-1 Ed. 1 | Part 30-1: Electrical resistance trace heating – General and testing requirements | Not included |
| IEC 60079-27 Ed.2 | Explosive atmospheres - Part 27: Fieldbus intrinsically safe concept (FISCO) | Included |
| IEC 60079-31 Ed. 2 | Explosive atmospheres – Part 31 : Equipment dust ignition protection by enclosure « t » | Included |
| IEC 60079-33 Ed. 1 | Explosive atmospheres – Part 33: Equipment protection by special protection “s” | Not included |
| IEC 60079-35-1 | 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 | Not included |
| IEC/TS 60079-40 | Explosive atmospheres – Part 40: Requirements for process sealing between flammable process fluids and electrical systems | Not included |
| IEC/TS 60079-46 Ed. 1 | Explosive atmospheres – Part 46 : Equipment assemblies | Not included |
| IEC/TS 60079-47 | Explosive atmospheres – Part 47: Equipment protection by 2-wire intrinsically safe Ethernet concept (2-WISE) | Not included |
| \*IEC 61241-0 Ed. 1 | Electrical apparatus for use in the presence of combustible dust – Part 0: General requirements | Included |
| \*IEC 61241-1 Ed. 1 | Electrical apparatus for use in the presence of combustible dust – Part 1: Protection by enclosure “tD” | Not included |
| \*IEC 61241-1-1 Ed. 1 | Electrical apparatus protected by enclosures and surface temperature limitation – specification for apparatus | Not included |
| \*IEC 61241-4 Ed. 1 | Electrical apparatus for use in the presence of combustible dust – Part 4: Protection by pressurization “pD” | Included |
| \*IEC 61241-11 Ed. 1 | Electrical apparatus for use in the presence of combustible dust – Part 11: Protection by intrinsic safety ‘iD’ | Included |
| \*IEC 61241-18 Ed. 1 | Electrical apparatus for use in the presence of combustible dust – Part 18: Protection by encapsulation “mD” | Included |
| \*IEC 61779-1 Ed. 1 | Electrical apparatus for the detection and measurement of flammable gases – Part 1: General requirements and test methods | Not included |
| \*IEC 61779-2 Ed. 1 | Electrical apparatus for the detection and measurement of flammable gases – Part 2: Performance requirements for group I apparatus indicating a volume fraction up to 5% methane in air | Not included |
| \*IEC 61779-3 Ed. 1 | Electrical apparatus for the detection and measurement of flammable gases – Part 3: Performance requirements for group I apparatus indicating a volume fraction up to 100% methane in air | Not included |
| \*IEC 61779-4 Ed. 1 | Electrical apparatus for the detection and measurement of flammable gases – Part 4: Performance requirements for group II apparatus indicating a volume fraction up to 100% lower explosive limit | Not included |
| \*IEC 61779-5 Ed. 1 | Electrical apparatus for the detection and measurement of flammable gases – Part 5: Performance requirements for group II apparatus indicating a volume fraction up to 100% gas | Not included |
| \*IEC 62013-1 Ed. 2 | Caplights for use in mines susceptible to firedamp – Part 1: General requirements – Construction and testing in relation to the risk of explosion | Not included |
| \*IEC 62086-1 | Electrical resistance trace heating – Part 1: General and testing requirements | Not included |
| ISO 80079-36 Ed. 1 | Explosive atmospheres – Part 36: Non-electrical equipment for explosive atmospheres – Basic method and requirements | Not included |
| ISO 80079-37 Ed. 1 | 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” | Not included |

### ExTL scope

NCC is not an ExTL according IECEx 02 however it is associated with the following ExTL:

* Element Materials Technology (EMT, TRC) - UNITED KINGDOM
* ExVeritas Limited (EXV) - UNITED KINGDOM
* Laboratoire Central des Industries Electriques – Bureau Veritas - FRANCE
* Bureau Veritas Consumer Products Services Germany GmbH (EPS) - GERMANY

### ATF Scope

NCC is not an ATF according IECEx 02.

### ExCB scope for Service Facilities Scheme

NCC is ExCB according IECEx 03-5.

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 | Included |
| Increased Safety “e” | e | Included |
| Type of Protection “n” | n | Included |
| Intrinsic Safety “i” | i | Included |
| Encapsulation “m” | m | Included |
| Oil Filled “o” | o | Included |
| Powder Filling “q” | q | Included |
| Pressurisation “p” | p | Included |
| Dusts to IEC 60079-31 “t” | t | Included |
| Dusts to IEC 61241-1 “tD” | tD | Included |
| Dusts to IEC 61241-1-1 “DIP” | DIP | Included |
| Dusts to IEC 61241-1-1 “pD” | pD | Included |
| Other (eg non-electrical) | Ot | Not included |

**Other service facility standards.**

|  |  |  |
| --- | --- | --- |
| ~~Number~~ | ~~Title~~ | Comments |
| ~~IEC 60079-17~~  ~~Edition 5.0~~ | ~~Explosive atmospheres – Part 17: Electrical installations inspection and maintenance~~ | Not included |

### ExCB scope for Conformity Mark Licensing Scheme

NCC is not an ExCB according IECEx 04.

### ExCB scope for IECEx Personnel Competence Scheme

NCC is not an ExCB according IECEx 05.

# Common information

## Legal entity of body

NCC Brazil is registered under the laws of Brazil by the “República Federativa do Brasil” under the number 16.587.151/0001-28. The valid registration document was provided during the assessment via online system

## Financial support

NCC Brazil receives its income from activities in the area of conformity assessment, quality management system certification, sale of publications and income from seminars and lectures.

## History

NCC Certificações do Brasil, hereinafter NCC Brazil is a-for-profit organization. Recognized by Anatel (National Telecommunications Agency) as a Designated Certification Body named (OCD). Accredited by Inmetro (National Institute of Metrology, Standardization and Industrial Quality) as a Product Certification Body (OCP – 0034) on 16 October 2003, and as a certification body of Quality Management Systems (OCS-0033) on June 20, 2005 and QA for Medical Devices OMD 001 on 29 June 2012.

In November 2017 NCC become an ExCB for Service Facilities Scheme, in accordance to IECEx 03-5 and July 2020 NCC become an AO (Auditing Organisation for MDSAP (Medical Device Single Audit Program).

## Documentation

### Quality manual

NCC has a comprehensive quality manual supported by other procedural documents, which refer to ISO/IEC 17065 and ISO/IEC 17021-1 standards. The Quality Manual meets the requirements of IECEx.

### Procedures

NCC has a very comprehensive range of procedures covering all aspects of the certification operations that were audited as part of this assessment. Where applicable each procedure has with it an associated test sheet for completion by the staff. These Procedures were found to meet the requirements of IECEx.

|  |  |
| --- | --- |
| PNCC\_01 | Drafting and Document Control |
| PNCC\_02 | Management Reviews of the Quality System |
| PNCC\_03 | Internal Audits |
| PNCC\_04 | Control of record |
| PNCC\_05 | Training |
| PNCC\_06 | Hiring and Dismissal of personnel |
| PNCC\_07 | Impartiality |
| PNCC\_08 | Contracting and Subcontracting Services |
| PNCC\_09 | Grant, maintain, withdraw, extension, reduction, suspension and transfer of certification |
| PNCC\_10 | Complaints Appeals |
| PNCC\_11 | Non-conformities, Corrective and Preventive Action |
| PNCC\_13 | Use of licenses, certificates and marks |
| PNCC\_42 | IECEx Product Certification Process |
| PNCC-87 | Service Facilities Certification Scheme - Repair, overhaul and reclamation of Ex equipment to IECEx System |

### Work instructions

Work instructions for certification activities are integrated into the PNCC\_42 procedure and were considered to meet IECEx requirements.

### Records (including test records where relevant)

All records are maintained and stored electronically. There is a back-up process in place which back-up all data on the cloud. This is described in the PNCC\_04 procedure. At the end of the certification process the Certification documents are archived. The procedure addresses the requirements of IECEx OD-207

### Document change control

Document change is controlled by having only the last version of the document on the quality folder.

Printed copies are effectively uncontrolled and show on each page “A printed copy of this document may not be the current version”. The procedure meets the IECEx requirements.

## Confidentiality

All employees and external auditors sign confidentiality and impartiality agreements. Examples of these were sighted by the team and found to meet the requirements of the IECEx

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

IECEx scheme rules for NCC Ex certification are available on the NCC’s website: <https://www.ncc.com.br>

## Recognitions and agreements

NCC has several agreements with organisations in other countries.

NCC is also recognised as a certification at the National level under the reference OCP n° 0034 by Cgcre/Inmetro.

## Internal audit

There is an overall audit system for NCC which include the certification operations. PNCC\_03 describes the procedure to perform the internal audit.

Internal audits are done once a year. The last internal audit took place 5 days in March 2021 and this was reviewed. This internal audit included all the scope was performed: No major nonconformities were found.

## Management review

<Document references to be initially completed by body being assessed>

The management review called Critical Analysis of the QMS meeting is performed in accordance with PNCC\_02 once a year. ~~However,~~ the last one took place on 2020-09-12 and was reviewed. This was recorded acceptable due to the COVID situation. It includes internal audits, corrective actions/accreditation audits, customer satisfaction (including complaints), meeting of certification committee.

## Contracting, subcontracting and witness testing

NCC operates subcontracting according to the QM, clause 4.4. All tests are outsourced to ExTLs listed in clause 3.3.

The contract between NCC and their associated ExTLs were checked and found to meet the requirements of the IECEx.

Some external auditors are used and the contracts with them were reviewed and found to meet the requirements of the IECEx.

## Training and competence

<Document references to be initially completed by body being assessed>.

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.

Every two months there is training of people in the ExCB 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 all ExCB operations details of which are included in the site assessment report.

## Complaints and appeals (including appeals to IECEx)

<Document references to be initially completed by body being assessed>

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

The procedures PNCC\_10 address the provision of appeals to IECEx and the applicants are advised of this and have information on [www.nccgroup.com.br](http://www.nccgroup.com.br).

## Impartiality

NCC’s staff involved in the process of certification activities has signed a commitment regarding impartiality and confidentiality. This is written in the Procedure PNCC\_07.

## Active involvement in development of Decision Sheets

NCC’s staff do participate in development of IECEx Scheme and also in Decision Sheets

## 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
* Information on competencies
* Assessors’ notes

## Recommendations

Based on the assessment performed on between 10 and 13 January 2022, NCC Certificações do Brasil Ltda. is recommended for continued acceptance in the IECEx scheme as:

* An ExCB in the IECEx Certification Equipment Scheme
* An ExCB in the IECEx Certification Service Facilities Scheme

|  |  |  |
| --- | --- | --- |
| Thierry HOUEIX | <name> | <name> |
| IECEx Lead Assessor | IECEx Assessor | IECEx Assessor |

Date: 25 May 2022

# ExCB for IECEx Certified Equipment Scheme

* 1. **Assessment references**
     1. **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

* + 1. **Additional references applied for this assessment**

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

* 1. **ExCB persons interviewed**

|  |  |
| --- | --- |
| **Name** | **Position** |
| Wilson Bonato | Technical Manager |
| Isaias Teixeira | Ex Process Manager |
| Daniel Cichetti | Ex Certification Analyst |
| Nicácio de Souza | Ex Certification Analyst |
| Helena de Paula Lira | Ex Contract Administrator |
| Camila Pires Bovo Catarina | Ex Account Manager |
| Felipe Passarini | Quality Coordinator |
| Bruno William Cruz Nascimento | Quality Trainee |
| Giovanni Anjos | Quality Analyst |

* 1. **Associated ExTL(s)**
* Element Materials Technology (EMT, TRC) - UNITED KINGDOM
* ExVeritas Limited (EXV) - UNITED KINGDOM
* Laboratoire Central des Industries Electriques – Bureau Veritas – France
* Bureau Veritas Germany Consumer Products Services GmbH

<To be initially completed by body being assessed>

* 1. **Associated certification functions**
* IECEx 02 Product Certification and IECEx 03-5 Certified Services Scheme

~~<To be initially completed by body being assessed>~~

* 1. **National marks and certificates**

NCC Certificações do Brasil Ltda. is an Approved Body under the Inmetro Regulation for Explosive Atmosphere: Accredited Body number is 0034.

<To be initially completed by body being assessed>

* 1. **Standards accepted**

See clause 1.6 of this report

* 1. **National differences to IEC standards**

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

* 1. **Organisation**

<Tables below to be initially completed by body being assessed>

* + 1. **Names, titles and experience of the senior executives**

|  |  |  |
| --- | --- | --- |
| **Name** | **Title** | **Experience (years)** |
| Wilson Bonato | Technical Manager | 35 years (Product Quality and Reliability Management;  19 in Product Certification and 15 Ex Certification) |

* + 1. **Name, title and experience of the quality management representative**

|  |  |  |
| --- | --- | --- |
| **Name** | **Title** | **Experience (years)** |
| Graziele Gomes | Quality Manager | 15 years in Quality System Management |

* + 1. **Name and title of signatories for certification**

|  |  |  |
| --- | --- | --- |
| **Name** | **Title** | **Comments** |
| Wilson Bonato | Technical Manager | Since 2005 |
| Isaias Teixeira | Ex Process Manager | Since 2022 |

* + 1. **Other employees in ExCB activity**

|  |  |  |
| --- | --- | --- |
| **Name** | **Title** | **Experience in Ex (years)** |
| Daniel Cichetti | Ex Certification Analyst | 2 years Ex technical analysis |
| Nicácio de Souza | Ex Certification Analyst | 2 years Ex technical analysis |

* 1. **Organizational structure**

See Annex A

<To be initially completed by body being assessed> with details possibly inserted in relevant Annexes.

* 1. **Indemnity insurance**

NCC holds professional indemnity and public liability insurance referenced 517720221X5100000003 issued by Allianz. These are covered in one policy from 31 December 2021 and 31 December 2022 which was signed on 10 January 2022. This was reviewed, and its validity was found to be extended every year. The cover is worldwide and all activity of NCC which means IECEx certification is included.

<To be initially completed by body being assessed>

* 1. **Resources**

**NCC** has an adequate number of staff experienced in Ex activities for the current level of business with adequate resources and facilities. The office is located in commercial centre which provides an adequate environment for the work.

* 1. **Committees (such as governing or advisory boards)**

Today due to the number of Certificates which was issued by NCC, they decided to not have a specific committee for IECEx Certification but NCC have a committee to ensure impartiality in the certification process. The purpose of this committee is described in the Impartiality PNCC\_07 and PNCC\_10 Appeals. The procedure was checked during the assessment and found to meet the requirements of IECEx.

<To be initially completed by body being assessed>

* 1. **Certification operations**
     1. **National approval/certification methods**

**NCC** is recognised under the National accreditation systems and schemes. It has procedures for compliance with IECEx Rules and Operational Documents. **NCC** is an Accepted Body, No. 0034 regarding Cgcre/Inmetro Rules.

<To be initially completed by body being assessed>

* + 1. **Certification policy**

The certification policy is described in PNCC\_42 and covers the requirements of the IECEx System.

* + 1. **Application for certification**

The complete certification process for delivering certificates is available on NCC’s website. There is no specific Application Form but the customers can request directly by email for certification and the marketing team is going to request the information requested for the IECEx certification.

<Document references to be initially completed by body being assessed>

* + 1. **Certification decision**

In principle, the Technical Manager of the Certification Body takes the certification decision.

QM and PNCC\_42 rev 10 clearly define the IECEx process including how the certification decision is taken. It is stated that the person taking the decision shall not participate directly in the evaluation or auditing process leading to the IECEx Certification. The process for each project is documented, including the use of a RACT (Technical Conformity Evaluation Report).

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

<Document references to be initially completed by body being assessed>

* + 1. **Suspension and cancellation of certificates**

The suspension and cancellation of certificates rules is well defined in the Certification Procedure referenced PNCC\_42 rev 10 and PNCC\_09 rev 43. The procedures were reviewed and found acceptable in meeting the requirements of IECEx

<Document references to be initially completed by body being assessed>

* 1. **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** | **2017** | **2018** | **2019** | **2020** | **2021** |
| IEC 60079-0 | General requirements | 2 | 1 | 1 | 0 | 0 |
| IEC 60079-1 | Equipment protection by flameproof enclosures “d” | - | - | - | - | - |
| IEC 60079-2 | Equipment protection by pressurized enclosure «p» | - | - | - | - | - |
| IEC 60079-5 | Equipment protection by powder filling «q» | - | - | - | - | - |
| IEC 60079-6 | Equipment protection by oil immersion «o» | - | - | - | - | - |
| IEC 60079-7 | Increased safety | 2 | 1 | 1 | 0 | 0 |
| IEC 60079-11 | Equipment protection by intrinsic safety “i” | - | - | - | - | - |
| IEC 60079-15 | Equipment protection by type of protection “n” | - | - | - | - | - |
| IEC 60079-18 | Equipment protection by encapsulation “m” | - | - | - | - | - |
| IEC 60079-25 Ed. 2 | Explosive atmospheres – Part 25: Intrinsically safe electrical systems | - | - | - | - | - |
| IEC 60079-26 Ed. 2 | Explosive atmospheres – Part 26: Equipment with equipment protection level (EPL) Ga | - | - | - | - | - |
| IEC 60079-27 | Fieldbus intrinsically safe concept (FISCO) | - | - | - | - | - |
| IEC 60079-31 | Equipment dust ignition protection by enclosure « t » | - | - | - | - | - |

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

* 1. **National accreditation**

The national accreditation certification for ISO/IEC 17065 and ISO/IEC 17021-1 is shown in Annex B

~~<To be initially completed by body being assessed>~~

* 1. **Assessment of manufacturers and issue of QARs**

PNCC\_42 rev 10 Procedure also addresses the assessments of manufacturers. The report format FNCC-465 includes all the requirements from the IECEx Scheme together with ATEX and Inmetro requirements.

* 1. **Comments (including issues found during assessment)**

Minor issues were found which were cleared to the satisfaction of the assessment team after the assessment.

These included:

* Reference of some Component certificate in the CoC
* Competency matrix

# 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

None

## Candidate ExCB persons interviewed

|  |  |
| --- | --- |
| Name | Position |
| Wilson Bonato | Technical Manager |
| Isaias Teixeira | Ex Process Manager |
| Daniel Cichetti | Ex Certification Analyst |
| Nicácio de Souza | Ex Certification Analyst |
| Helena de Paula Lira | Ex Contract Administrator |
| Camila Pires Bovo Catarina | Ex Account Manager |

## National marks and certificates

No national marks and certificates

<To be initially completed by body being assessed>

## Standards accepted

See clause 1.6 of this report

## National differences to IEC standards

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

## Organisation

<Tables below to be initially completed by body being assessed>

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

|  |  |  |
| --- | --- | --- |
| **Name** | **Title** | **Experience (years)** |
| Wilson Bonato | Technical Manager | 35 years (Product Quality and Reliability Management;  19 in Product Certification and 15 Ex Certification) |

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

|  |  |  |
| --- | --- | --- |
| **Name** | **Title** | **Experience (years)** |
| Graziele Gomes | Quality Manager | 15 years in Quality System Management |

### Name and title of signatories for certification

|  |  |  |
| --- | --- | --- |
| **Name** | **Title** | **Comments** |
| Wilson Bonato | Technical Manager | Since 2005 |
| Isaias Teixeira | Ex Process Manager | Since 2022 |

### Other employees in ExCB activity

|  |  |  |
| --- | --- | --- |
| **Name** | **Title** | **Experience in Ex (years)** |
| Daniel Cichetti | Ex Certification Analyst | 2 years Ex technical analysis |
| Nicácio de Souza | Ex Certification Analyst | 2 years Ex technical analysis |

## Organizational Structure

See Annex A

## Indemnity insurance

NCC holds professional indemnity and public liability insurance referenced 517720221X5100000003 issued by Allianz. These are covered in one policy from 31 December 2021 and 31 December 2022 which was signed on 10 January 2022. This was reviewed, and its validity was found to be extended every year. The cover is worldwide and all activity of NCC which means IECEx certification is included.

<To be initially completed by body being assessed>

## Resources

The site assessment revealed adequate resources, personnel and facilities, in order to meet

the requirements of the IECEx Scheme for the issuing of IECEx FARs and IECEx Service Facility CoCs

## Committees (such as governing or advisory boards)

Today due to the number of Certificates issued by NCC, they decided to not have a specific committee for IECEx Certification but NCC have a committee to ensure impartiality in the certification process. The purpose of this committee is described in the Impartiality PNCC\_07 and PNCC\_10 Appeals. The procedure was checked during the assessment and found to meet the requirements of IECEx.

<To be initially completed by body being assessed>

## Certification operations

### National approval/certification Methods

No national approval or certification methods

<To be initially completed by body being assessed>

### Certification policy

The certification policy is described in PNCC\_87 rev 02 and covers the requirements of the IECEx System.

### Application for certification

The complete certification process for delivering certificates is available on NCC’s website. There is no specific Application Form but the customers can request directly by email for certification and the marketing team is going to request the information requested for the IECEx certification.

<Document references to be initially completed by body being assessed>

### Certification decision

In principle, the Technical Manager of the Certification Body takes the certification decision.

The above is documented in the PNCC\_87 rev 02 which defines the certification decision.

<Document references to be initially completed by body being assessed>

### Suspension and cancellation of certificates

The suspension and cancellation of certificates rules is well defined in the Certification Procedure referenced PNCC\_87 rev 02 and PNCC\_09 rev 43.

<Document references to be initially completed by body being assessed>

## Statistics

<To be initially completed by body being assessed>

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Standard numbers** | **Other identifying information** | **2017** | **2018** | **2019** | **2020** | **2021** |
| IEC 60079-19 | Equipment repair, overhaul and reclamation | - | 1 | 1 | 0 | 0 |

## National accreditation

The national accreditation certification for ISO/IEC 17065 and ISO/IEC 17021-1 is shown in Annex B.

## Assessment of service facilities and issue of FARs

**NCC** established assessment processes, including PNCC\_87 rev 02 Procedure for Audit Activities and for Managing Audits for Certification, which covers the assessment of service facilities and issuance of FARs. For additional information, refer to Clause 3.16 of this report.

In response to the COVID-19 pandemic, **NCC** has developed the procedure FNCC\_705 rev 0, for record the risk analysis for application of OD 060, which was prepared to enable support and continuing certification of service facilities. This arrangement was found to meet with the requirements of the IECEx System.

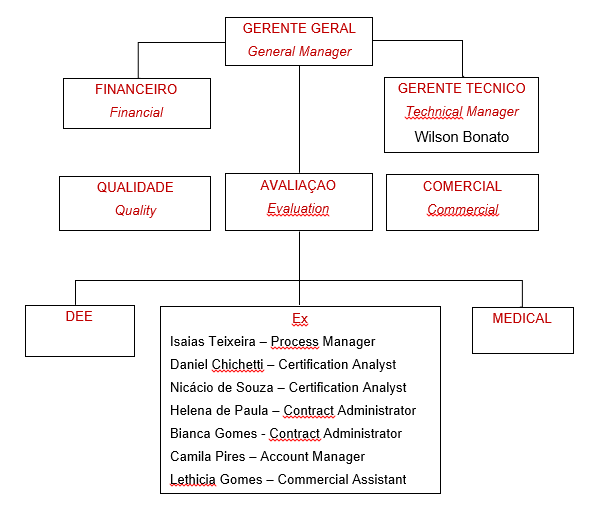
During the assessment, numbers of issued FARs and CoCs were reviewed, and found to be in line with **NCC** procedures and IECEx requirements.

## Comments (including issues found during assessment)

None

# Annexes

1. Overall Organisation Chart



1. Accreditation Certificates for ISO/IEC 17065 and ISO/IEC 17021-1



