ExMC/1105/DV
April 2016

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

Title: Re-assessment and Scope Extension Report for DEKRA Certification BV (NL)an Accepted ExCB and an Accepted ExTL within the IECEx System, IECEx 02, IECEx 03 and IECEx 04 Schemes

To: Members of the IECEx Management Committee, ExMC

Introduction

This document contains the IECEx Re-Assessment Report for DEKRA Certification BV an Accepted ExCB and an Accepted ExTL within the IECEx System, Equipment Scheme 02, IECEx certified Services Scheme, IECEx 03 and the IECEx Mark Licensing System IECEx 04

During the re-assessment, the IECEx Assessment Team took the opportunity to also assess DEKRA facilities, equipment and competence to undertake testing and certification to the Standards –

ISO 80079-36 Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres - Basic method and requirements

ISO 80079-37 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"

Please consider the assessment report and return the completed voting form, (A separate Word document) to **the Secretariat** by

2016 05 16

Your speedy response to the voting process will be very much appreciated.

Chris Agius

IECEx Secretariat

Address: **Level 33, Australia Square** **264 George Street** **Sydney NSW 2000** **Australia**	**Contact Details:** **Tel: +61 2 46 28 4690** **Fax: +61 2 46 27 5285** **e-mail:chris.agius@iecex.com** **http://www.iecex.com**

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

IECEx Assessment Report Form

IECEx Assessment Report Form for use by IECEx Assessment Teams to report Assessments conducted according to the IECEx Assessment Procedures of

a) Operational Document IECEx OD 003-2 for the Certified Equipment Scheme
b) Operational Document IECEx OD 016 for the Certified Service Facility Scheme
c) Operational Document IECEx OD 022 for the IECEx Conformity Mark Licensing System

---

IECEx ExCB/ExTL assessment report for DEKRA Certification BV

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

CONTENTS

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

1 Assessment information 5
1.1 Type of Body covered by this assessment: <retain appropriate marks> 5
1.2 Type of assessment: <retain appropriate marks> 5
1.3 Details of body 5
1.3.1 Country 5
1.3.2 Name of body 5
1.3.3 Name and title of nominated principal contact 5
1.4 Assessment information 5
1.4.1 Members of the assessment team 5
1.4.2 Place(s) of assessment 5
1.4.3 Assessment date(s) 6
1.5 Application information 6
1.6 Scopes 6
1.6.1 ExCB scope for equipment certification scheme 6
1.6.2 ExTL scope 8
1.6.3 ExCB scope for ExMark Scheme 8
2 Common information 8
2.1 Legal entity of body 8
2.2 Financial support 8
2.3 History 8
2.4 Documentation 8
2.4.1 Quality manual 8
2.4.2 Procedures 8
2.4.3 Work instructions 9
2.4.4 Records (including test records where relevant) 9
2.4.5 Document change control 9
2.5 Confidentiality 9
2.6 Publications (Hard cover and Electronic) 9
2.7 Recognition and agreements 9
2.8 Internal audit and periodic management review 9
2.9 Contracting, subcontracting, use of other labs and use of other locations 10
2.10 OD 024 10
2.11 Training and competence 10
2.12 Complaints and appeals (including appeals to IECEx) 10
2.13 Special facts to be noted 10
2.13.1 Supporting documentation 10
2.14 Recommendations 11
3 ExCB for IECEx Certified Equipment Scheme 12
3.1 Assessment references 12
3.2 Candidate ExCB persons interviewed 12
3.3 Associated ExTL(s) 12
3.4 Associated certification functions 12
3.5 National marks and certificates 12

3.6 Standards accepted 12
3.7 National differences to IEC standards 13
3.8 Organisation 13
3.8.1 Names, titles and experience of the senior executives 13
3.8.2 Name, title and experience of the quality management representative 13
3.8.3 Name and title of signatories for certification 13
3.8.4 Other employees in ExCB activity 13
3.9 Organizational structure 13
3.10 Administration 13
3.10.1 Administrative structure 13
3.10.2 Indemnity insurance 13
3.11 Resources 13
3.12 Committees (such as governing or advisory boards) 14
3.13 Certification operations 14
3.13.1 National approval/certification methods 14
3.13.2 Certification policy 14
3.13.3 Application for certification 14
3.13.4 Certification decision 14
3.13.5 Suspension and cancellation of certificates 14
3.14 Scope extension 14
3.15 Certificates issued 14
3.16 National accreditation 15
3.17 Assessment of manufacturers and issue of QARs 15
3.18 Comments (including issues found during assessment) 15
4 ExTL for IECEx Certified Equipment Scheme 16
4.1 Assessment references 16
4.2 Candidate ExTL persons interviewed 16
4.3 Associated ExCB(s) 16
4.4 Organisation 16
4.4.1 Names, titles and experience of the senior executives 16
4.4.2 Name, title and experience of the quality management representative 16
4.5 Organizational structure 16
4.6 Resources 16
4.7 Test reports issued 17
4.8 National accreditation 17
4.9 Calibration 17
4.10 Uncertainty 17
4.11 Comments (including issues found during assessment) 17
5 IECEx Conformity Mark Licensing System 18
5.1 Assessment references 18
5.2 Comments (including issues found during assessment) 18
6 Annexes 18
Annex A Organisation of Explosion and Process Safety section (EPS) 19
Annex B Accreditation Certificate for Product Certification (selected pages only) 20

1 Assessment information

1.1 Type of Body covered by this assessment: <retain appropriate marks>

ExCB for IECEx Certified Equipment Scheme	✓
ExTL for IECEx Certified Equipment Scheme	✓
ExCB for IECEx Certified Service Facilities Scheme	
ExCB for IECEx Conformity Mark Licensing System	✓

NOTE 1 ExCB - IECEx Certification Body

NOTE 2 ExTL - IECEx Testing Laboratory

1.2 Type of assessment: <retain appropriate marks>

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

The opportunity was taken to conduct a scope extension assessment for the new ISO 80079-36 and -37 Standards which were in their final Draft form, in accordance with the decisions of the 2015 ExMC Christchurch meeting, during the scheduled re-assessment.

Additional time was allocated to include the non-electrical standards and a draft TCD (Technical Capability Document) was also used as part of the assessment tools for this purpose.

It should also be known that the Lead Assessor, Mr Ron Webb has been intimately involved in the preparation of the new non electrical standards as well as a member ExMC WG15 (non electrical expert Working Group).

1.3 Details of body

1.3.1 Country

The Netherlands

1.3.2 Name of body

DEKRA Certification BV

1.3.3 Name and title of nominated principal contact

Name	Title	E-mail address
Richard Schuller	Certification Manager	Richard.Schuller@dekra.com

1.4 Assessment information

1.4.1 Members of the assessment team

Name	Role (modify as necessary)
Ron Webb	Lead Assessor
Katy Holdredge	Expert Assessor

1.4.2 Place(s) of assessment

Meander 1051, 6825 MJ Arnhem, The Netherlands

1.4.3 Assessment date(s)

1-3 December 2015

1.5 Application information

1.6 Scopes

1.6.1 ExCB scope for equipment certification scheme

Number	Title
IEC 60079-0 Edition 6 Edition 5 Edition 4 Edition 3.1	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-1 Edition 7 Edition 6 Edition 5 Edition 4	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures “d”
IEC 60079-2 Edition 6 Edition 5 Edition 4	Explosive atmospheres - Part 2: Equipment protection by pressurized enclosure «p»
IEC 60079-5 Edition 4 Edition 3 Edition 2	Explosive atmospheres - Part 5: Equipment protection by powder filling «q»
IEC 60079-6 Edition 4 Edition 3 Edition 2	Explosive atmospheres - Part 6: Equipment protection by oil immersion «o»
IEC 60079-7 Edition 5 Edition 4 Edition 3	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
IEC 60079-11 Edition 6 Edition 5 Edition 4	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety “i”
IEC 60079-13 Edition 1	Explosive atmospheres - Part 13: Equipment protection by pressurized room 'p'
IEC 60079-15 Edition 4 Edition 3 Edition 2 Edition 1	Explosive atmospheres – Part 15: Equipment protection by type of protection "n"
IEC 60079-18 Edition 4 Edition 3 Edition 2 Edition 1	Explosive atmospheres – Part 18: Equipment protection by encapsulation “m”

Number	Title
IEC 60079-25 Edition 2 Edition 1	Explosive atmospheres – Part 25: Intrinsically safe electrical systems
IEC 60079-26 Edition 3 Edition 2 Edition 1	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga
*IEC 60079-27 Edition 2 Edition 1	Explosive atmospheres – Part 27: Fieldbus intrinsically safe concept (FISCO)
IEC 60079-28 Edition 2 Edition 1	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
*IEC 60079-30-1 Edition 1	Explosive atmospheres – Part 30-1: Electrical resistance trace heating – General and testing requirements
ISO/IEC 80079-36 **Scope Extension**	Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres – Basic method and requirements
ISO/IEC 80079-37 **Scope Extension**	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”
IEEE/IEC 60079-30-1 Edition 1	Explosive atmospheres - Part 30-1: Electrical resistance trace heating - General and testing requirements
IEC 60079-31 Edition 2 Edition 1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-35-1 Edition 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
*IEC 61241-0 Edition 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
*IEC 61241-1 Edition 1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosure “tD”
*IEC 61241-1-1 Edition 2	Electrical apparatus protected by enclosures and surface temperature limitation - Specification for apparatus
IEC 61241-4 Edition 1	Electrical apparatus for use in the presence of combustible dust - Part 4: Protection by pressurization "pD"
*IEC 61241-11 Edition 1	Electrical apparatus for use in the presence of combustible dust – Part 11: Protection by intrinsic safety 'iD'
*IEC 61241-18 Edition 1	Electrical apparatus for use in the presence of combustible dust - Part 18: Protection by encapsulation "mD"
*IEC 62013-1 Edition 2	Caplights for use in mines susceptible to firedamp - Part 1: General requirements - Construction and testing in relation to the risk of explosion
*IEC 62013-2 Edition 2	Caplights for use in mines susceptible to firedamp - Part 2: Performance and other safety-related matters
*IEC TS 60079-27 Edition.1	

NOTE 1 Standards shown with an asterisk (*) are superseded standards

NOTE 2 Unless otherwise indicated, earlier editions of standards (even if with a different number) are considered to be covered in the above scope for the purposes of the assessment.

NOTE 3 The above list highlights any extension of scope in the list above for new standards or later editions of standards already in scope.

1.6.2 ExTL scope

The ExTL scope is the same as for the ExCB.

1.6.3 ExCB scope for ExMark Scheme

Full scope as shown for ExCB above.

2 Common information

2.1 Legal entity of body

DEKRA Certification BV is a limited liability company organised under the laws of the Netherlands.
The legal standing of the company was verified during the site assessment visit.

2.2 Financial support

DEKRA Certification BV derives its funding from the charges for its services

2.3 History

N.V. KEMA was founded in 1927 as the Dutch electricity industry's test house. KEMA Quality B.V. and was, until 1 November 2009, a business unit of the N.V. KEMA, with testing and certification of household, commercial and industrial products, assessment and certification of Quality Management Systems and Personnel Certification as its core business. From 1st November 2009 KEMA Quality B.V. became a member of the DEKRA Group and the name changed to DEKRA Certification BV with unchanged scope and activities. Since 1991 KEMA Quality B.V. as an ATEX Notified Body has assessed and certified Ex-products and Ex-production sites according to the European Directives. In March 2005 KEMA was approved as an IECEx 02 ExCB/ExTL, followed by IECEx 03 ExCB approval in May 2007.

2.4 Documentation

2.4.1 Quality manual

The on-line (accessible for all staff) DEKRA Certification BV Quality Manual covers all general requirements of ISO/IEC 17065 and ISO/IEC 17025.

2.4.2 Procedures

The DEKRA Certification BV Quality on-line Management System (QMS) contains all procedures and Work Instructions related to the activities of DEKRA Certification BV. This system is predominantly in English to assist with international use of the system. For IECEx 02, the specific procedures are PROD-P-Ex-04 and -05, covering product certification and site audits respectively. In addition there is a document General Manual EX Team that has been developed since the assessment visit. This describes in general terms the DEKRA Certification BV way of working. It is intended as a guideline for all activities within Business Team Explosion Safety (Team Ex). Additional manuals are planned. All working documents like standard checklists, laboratory measurement forms, etc. are kept on 2Connect.

2.4.3 Work instructions

Included in 2.4.2

2.4.4 Records (including test records where relevant)

For each project a project file is made which includes all correspondence, assessment and test results and certificates. After completion of the work, the complete file is digitally archived. Hard copy records are securely disposed of using a contractor.

NOTE 1 Example records should be sought of oldest records both in electronic and hard copy to test the retrieval and existence of records, including archival records.

NOTE 2 Information should be sought on whether there is a method of secure disposal of hard copy records once they have been placed on an electronic system.

2.4.5 Document change control

All documents that are part of QMS are controlled according to DEKRA Certification BV's procedures. The documents on 2Connect are controlled using the procedure of the EX Team, using for each document an appointed document owner and document reviewer. A procedure prescribes minimum retention times for documents. However, in practice obsolete documents are retained indefinitely in 2Connect in a hidden directory not accessible for the users.

2.5 Confidentiality

The DEKRA Certification BV management system ensures that all staff and any contractors (e.g. MTSA staff) sign a confidentiality agreement which also addresses "conflict of interest". Examples were sited of agreements signed by employees, contractor employees and members of committees. For more recent employees the confidentially requirements are built into the employment contracts.

2.6 Publications (Hard cover and Electronic)

Details regarding Ex certification are available on the company website. http://www.dekra-certification.com/en/explosion-safety

2.7 Recognition and agreements

DEKRA Certification BV agreements and recognitions include:
Notified Body under ATEX
IECEE CB Scheme
IECEx 03 Scheme
IECEx 05 Scheme
FM
USCG
TIIS
QPS
KCS
Accredited by INMETRO/CGCRE

2.8 Internal audit and periodic management review

The latest management review meeting was held on 27 February 2015. This covered the required aspects.

Reports from three internal audits carried out in August /September 2015 were viewed. Some opportunities for improvement were noted and some NCRs raised. The actions resulting are ongoing.

2.9 Contracting, subcontracting, use of other labs and use of other locations

Most of the IECEx 02 work is done within DEKRA Certification BV. DEKRA Certification BV uses MTSA Technopower B.V in Arnhem, NL, for Ex d measurements and preparation of test samples. An annual visit by DEKRA staff was made on 25 September 2015 and a few minor observations found. These were not considered to affect the results of any work carried out. Evidence regarding some of the observations is awaited as a result of the visit.

DEKRA EXAM, Germany (IECEx ExTL) is used for testing in case of large samples that cannot be handled by DEKRA Certification BV. In addition, optical measurements are also carried out by DEKRA EXAM to IEC 60079-28.

Arrangements are ongoing for DEKRA EXAM and DEKRA Certification BV to have reciprocal agreements as an associated ExTL and ExCB.

2.10 OD 024

To cover off-site and witness testing, OD024 is referenced and incorporated in procedure PROD-P-Ex-04

For one job viewed it was seen that contracts had been put in place

The relevant ExTR clearly indicated that OD024 had been used

2.11 Training and competence

Each staff member has a record of competency and this is being updated to the current status.

There is a matrix of personnel versus competency for various standards and also a record for each staff member showing the training received and their current competency status for each standard.

2.12 Complaints and appeals (including appeals to IECEx)

Any disputes and complaints are dealt with according to DEKRA Certification BV's General Terms and Conditions. In the IECEx 02 application forms that DEKRA Certification BV use for all IECEx projects; the client is made aware of the possibility to make an appeal to the IECEx ExMC.

2.13 Special facts to be noted

2.13.1 Supporting documentation

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

- 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, included in TCD
- Assessors' notes

2.14 Recommendations

Based on the assessment performed on 1-3 December 2015 and the responses received on 1 March 2016, DEKRA Certification BV 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
- An ExCB in the IECEx Conformity Mark Licensing System

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

Ron Webb	Katy Holdredge
Lead Assessor	Expert Assessor

Date: 16 March 2016

3 ExCB for IECEx Certified Equipment Scheme

3.1 Assessment references

a) IECEx02 IECEx Certified Equipment Scheme covering equipment for use in explosive atmospheres – Rules of Procedure

a) OD003-2 Assessment, surveillance assessment and re-assessment of ExCBs and ExTLs operating in the IECEx 02, IECEx Certified Equipment Scheme

b) OD005-1 IECEx Quality System Requirements for Manufacturers – Part 1: Guidance on the establishment and maintenance of a quality system

c) OD005-2 IECEx Quality System Requirements for Manufacturers – Part 2: Audit Checklist. (This is available in a Word format for use by ExCBs)

d) ISO/IEC 80079-34 Edition 1, Explosive atmospheres – Part 34: Application of quality systems for equipment manufacture

e) OD009 Issuing of CoCs, ExTRs and QARs

f) IECEx Document 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

g) OD0026 IECEx Certified Equipment Scheme – Guidelines for the qualification of Lead Auditor and Auditors, in accordance with the IECEx System

h) ISO/IEC 17065, General requirements for bodies operating product certification systems

i) IECEx Document OD17 Drawing and documentation guidance

j) IECEx Technical Capability Document (TCD)

k) ExTAG decision sheets (DSs)

NOTE The latest editions of the above documents were applied

3.2 Candidate ExCB persons interviewed

Name	Position
Richard Schuller	Certification Manager
Theo Pijpker	Certification Manager

3.3 Associated ExTL(s)

The ExTL is integral with the ExCB

3.4 Associated certification functions

DEKRA Certification BV holds accreditation to ISO/IEC 17065 for various aspects of the certification business, including Ex. A copy of the certificate is included as Annex B

However, DEKRA Certification BV does not hold an accreditation yet to ISO/IEC 17025 for the Ex laboratory activities. Its goal is to achieve ISO/IEC 17025 for all laboratory activities, including Ex, in 2016.

3.5 National marks and certificates

DEKRA Certification BV operate as an ATEX Notified body, number 0344

3.6 Standards accepted

See clause 1.6.1 of this report

3.7 National differences to IEC standards

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

3.8 Organisation

3.8.1 Names, titles and experience of the senior executives

Name	Title	Experience
Mr. Bert Zoetbrood	Managing Director	8
Mr Jan de Jonge	Business line manager EPS	>10

3.8.2 Name, title and experience of the quality management representative

Name	Title	Experience
Mrs. Anne-Fré Vollema	Quality & Legal Manager	29

3.8.3 Name and title of signatories for certification

Name	Title	Comments
Mr. Theo Pijpker	Product Expert EX	24 years' experience
Richard Schuller	Certification Manager	15 years experience

3.8.4 Other employees in ExCB activity

Name	Title	Responsibility and Experience in Ex
Mr. Marco Erdhuizen	Auditor	10 years
Mr. Eric Giusti	Auditor	11 years
Mr. Erwin ter Haar	Auditor	16 years
Mr. Koichi Masuki	Auditor	9 years
Mr. Richard Schuller	Auditor	15 years

3.9 Organizational structure

See annex A

3.10 Administration

3.10.1 Administrative structure

See annex A

3.10.2 Indemnity insurance

There is a public and product liability insurance policy for EUR 10M current to 1 January 2016. Evidence was provided that this policy also covers professional indemnity.

3.11 Resources

The site assessment revealed adequate resources, personnel and facilities, in order to meet the requirements of the IECEx Scheme for the issuing of ExTRs, IECEx QARs and IECEx CoCs.

3.12 Committees (such as governing or advisory boards)

DEKRA Certification BV has a committee related to certification identified as the impartiality committee. This comprises experts from a range of interests relevant to product certification. The committee meets twice a year and has the power to form an appeals committee if required.

3.13 Certification operations

3.13.1 National approval/certification methods

See 3.5

3.13.2 Certification policy

The Certification Policy is embodied in its Quality policy which is included in the Quality Manual, and is appropriate for operation in the IECEx Equipment Certification Scheme.

3.13.3 Application for certification

On making an enquiry, an application form is sent to the client to be filled out as part of the process. The procedure is identified in PROD-P-Ex04 (IECEx 02 product certification) and PROD-P-Ex05 (IECEx 02 site audits). The procedures are non-discriminatory

3.13.4 Certification decision

The certification decision is taken by a Certification Manager (CM) appointed by DEKRA Certification BV Quality Managing Director. The decision process in defined in PROD-P-Ex04. Only those managers who are authorized to turn a draft DEKRA Certification BV certificate into a current one have access to the appropriate IECEx password

3.13.5 Suspension and cancellation of certificates

Withdrawal, suspension and termination of certificates / certification agreements are covered by DEKRA Certification BV General Terms and Conditions. In addition, the IECEx 02 application forms that DEKRA Certification BV uses refer to IECEx 02 regarding suspension and withdrawal of certificates.

3.14 Scope extension

The extension to scope to cover the non-electrical standards was carried out.

This involved the completion of a TCD section for each standard together with interviews with staff involved.

As DEKRA Certification BV is operating as a European Notified Body several certificates had been issued to the EN 13463 series of standards, on which the ISO standards are based.

DEKRA Certification BV are therefore considered acceptable to have the non-electrical standards added to their scope.

3.15 Certificates issued

Number of certificates issued under for the preceding four years for each type of protection.

Standard numbers	Type of protection or other identifying information	Number of issued certificates (for last 4 years)				
		2012	2013	2014	2015	Total
60079-0	General requirements	89	111	146	146	492
60079-1	Ex d	72	108	136	134	450
60079-2	Ex p	30	43	50	15	138
60079-5	Ex q	0	2	1	2	5
60079-6	Ex o	0	0	0	0	0
60079-7	Ex e	25	18	19	18	80
60079-11	Ex i	45	70	70	58	243
60079-13	Pressurised rooms	0	0	0	0	0
60079-15	Ex n	13	34	65	71	183
60079-18	Ex m	6	9	11	6	32
60079-25	is systems	1	1	0	0	2
60079-26	Zone 0 (EPL Ga)	25	33	39	7	104
60079-27	FISCO	3	5	1	1	10
60029-28	Ex op	0	1	6	3	10
60079-30	Trace heating	3	0	2	6	11
60079-31	Ex t	22	36	37	33	128
EN 13463-xx	Non-electrical equipment	79	61	56	54	250

NOTE The above table is based on DEK Certificates but does not include updates to KEM Certificates.

Regarding non-electrical equipment, DEKRA Certification BV have extensive experience conducting testing and assessments of non-electrical equipment under the ATEX Directive

During the site assessment visit as part of the review of completed files, the assessment team reviewed a number of test files including those associated with non-electrical equipment in line with the draft IECEx Guides prepared by WG15 and found that the files were complete and assessments were conducted in line with the draft ISO Standards and IECEx Guide.

3.16 National accreditation

DEKRA Certification BV have accreditation from RvA to ISO/IEC 17065: 2012 covering, amongst other activities, Annex III of the ATEX Directive 94/9/EC. This is considered acceptable.

3.17 Assessment of manufacturers and issue of QARs

DEKRA Certification BV uses qualified auditors for the IECEx audits who conduct the audits and prepare the QAR. Planning of the audits is done by the EX Business Support Office (BSO); Qualified CMs review and approve the QARs.

3.18 Comments (including issues found during assessment)

Minor issues were found regarding ExTR content. Most of these were resolved during the visit to the satisfaction of the assessment team. Others were resolved following the visit.

4 ExTL for IECEx Certified Equipment Scheme

4.1 Assessment references

l) IECEx02 IECEx Certified Equipment Scheme covering equipment for use in explosive atmospheres – Rules of Procedure

m) IECEx OD003-2 Assessment, surveillance assessment and re-assessment of ExCBs and ExTLs operating in the IECEx 02, IECEx Certified Equipment Scheme

n) IECEx OD009 Issuing of CoCs, ExTRs and QARs

o) ISO/IEC 17025:2005 Edition 2, General requirements for the competence of testing and calibration laboratories

p) IECEx Document OD17 Drawing and documentation guidance

q) IECEx Technical Guidance Documents (TGDs)

r) ExTAG decision sheets (DSs)

NOTE The latest editions of the above documents were applied.

4.2 Candidate ExTL persons interviewed

Name	Position
Michel Dolstra	Project Manager
Leo van Schie	Project Manager
Gert Jan Kluin	Lab Technician
George Reynaert	Lab Technician

4.3 Associated ExCB(s)

The ExTL is integral with the ExCB

4.4 Organisation

4.4.1 Names, titles and experience of the senior executives

Name	Title	Experience
Mr. Bert Zoetbrood	Managing Director	8
Mr Jan de Jonge	Business line manager EPS	>10

4.4.2 Name, title and experience of the quality management representative

Name	Title	Experience
Mrs. Anne-Fré Vollema	Quality & Legal Manager	29

4.5 Organizational structure

See Annex A

4.6 Resources

The site assessment revealed adequate resources, personnel and facilities, in order to meet the requirements of the IECEx Scheme for product testing.

4.7 Test reports issued

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

Standard numbers	Type of protection or other identifying information	Number of issued reports (ExTRs) (for last 4 years)				
		2012	2013	2014	2015	Total
60079-0	General requirements	89	111	146	146	492
60079-1	Ex d	72	108	136	134	450
60079-2	Ex p	30	43	50	15	138
60079-5	Ex q	0	2	1	2	5
60079-6	Ex o	0	0	0	0	0
60079-7	Ex e	25	18	19	18	80
60079-11	Ex i	45	70	70	58	243
60079-13	Pressurised rooms	0	0	0	0	0
60079-15	Ex n	13	34	65	71	183
60079-18	Ex m	6	9	11	6	32
60079-25	is systems	1	1	0	0	2
60079-26	Zone 0 (EPL Ga)	25	33	39	7	104
60079-27	FISCO	3	5	1	1	10
60029-28	Ex op	0	1	6	3	10
60079-30	Trace heating	3	0	2	6	11
60079-31	Ex t	22	36	37	33	128
EN 13463-xx	Non-electrical equipment	79	61	56	54	250

NOTE The above numbers are based on the number of certificates issued as the number of ExTRs was not readily available

4.8 National accreditation

DEKRA Certification BV have ISO/IEC 17025 Accreditation but not for the Ex activities. An extension to cover Ex is anticipated in 2016.

4.9 Calibration

The calibration certificates for several pieces of equipment were viewed

ORS 126380 - multimeter – calibrated on 26 October 2015
ORS 108438 - System comprising transduce/charge amplifier/oscilloscope – calibrated as a system - calibrated on 30 July 2015
ORS 117992 – oscilloscope - calibrated on 14 July 2015
ORS 118265 – multimeter – calibrated on 23 July 2015
ORS 117247 – temperature indicator – calibrated on 17 September 2015

All items calibrated by RvA assessed laboratories and found to be acceptable.

4.10 Uncertainty

DEKRA have an Uncertainty Manual, FLOW-P-R-M01 which identifies how to calculate an uncertainty budget for any measurement.

4.11 Comments (including issues found during assessment)

The test lab appears to be working very well.

5 IECEx Conformity Mark Licensing System

5.1 Assessment references

a) IECEx04 IECEx Certified Equipment Scheme covering equipment for use in explosive atmospheres – IECEx Conformity Mark Licensing System – Regulations

b) IECEx04A IECEx Certified Equipment Scheme covering equipment for use in explosive atmospheres – Guidance for making applications for and use of IECEx Conformity Mark

c) OD022 IECEx Certified Equipment Scheme covering equipment for use in explosive atmospheres – Rules and Procedures for the granting of Licenses to issue and use the IECEx Conformity Mark

d) OD023 IECEx Certified Equipment Scheme covering equipment for use in explosive atmospheres – Terms and Conditions for use of the IECEx Conformity Mark

NOTE The latest editions of the above documents were applied

5.2 Comments (including issues found during assessment)

There has been one request for the Mark and it has been issued. This was viewed on the IECEx website.

The checklist details for DEK001 were viewed and found to meet the requirements for issue of the licence.

6 Annexes

See Contents. (add, modify or delete annexes as necessary). Please note the following instructions for the IEC template:

NOTE When creating a new annex **DO NOT** type the word Annex, just create a new empty page and then apply the styles ANNEX_title to the first (empty) line. The word "Annex" followed by the letter "A" or "B", etc will automatically appear.

TIP: When typing annex titles, separate the lines of the title by "shift+return"

Annex A
Organistion of Explosion and Process Safety section (EPS)

EPS-NL: 30 persons
Support office: 6
Project managers: 19
Sales: 3
Lab-technicians: 2
Certification managers: 4
Auditors: 6

EPS-Korea: 5
Support: 1
Project managers: 4
Auditors: 1

EPS-USA: 5
Support: none (yet)
Project managers: 4
Auditors: 1

EPS-Japan: 6
Support: 1
Project managers: 5
Auditors: 1

All persons, whether located in the listed location of DEKRA or in alternative locations indicated above are operating under direction from the office in NL and all critical stages of certification and testing are done at NL being the listed location of DEKRA.

Annex B
Accreditation Certificate for Product Certification (selected pages only)

RAAD VOOR ACCREDITATIE

Dutch Accreditation Council RvA
PO Box 3768 NL-3500 GT Utrecht

De Stichting Raad voor Accreditatie,
bij wet aangewezen als de nationale accreditatie-instantie voor Nederland,
verklaart hierbij accreditatie te hebben verleend aan:

DEKRA Certification B.V.
Arnhem

De instelling heeft aangetoond in staat te zijn certificatie van producten op een competente, consistente en onafhankelijke wijze uit te voeren.

Deze accreditatie is gebaseerd op een beoordeling tegen de vereisten zoals vastgelegd in ISO/IEC 17065:2012.

De accreditatie is van toepassing op de activiteiten zoals gespecificeerd in de gewaarmerkte bijlage die is voorzien van het registratienummer.

De accreditatie is van kracht, onder voorwaarde dat de instelling blijft voldoen aan de vereisten.

De accreditatie voor registratienummer:

C 001

is verleend op 10 oktober 2014

Deze verklaring is geldig tot
1 mei 2018

De accreditatie is voor het eerst verleend op
26 september 1983

De Algemeen Directeur,

Ir. J.C. van der Poel

De Stichting Raad voor Accreditatie is ondertekenaar van de European co-operation for Accreditation (EA) Multilateral Agreement voor accreditatie in dit werkgebied.

Annex to ISO/IEC 17065:2012 declaration of accreditation
for registration number **C 001**

of **DEKRA Certification B.V.**

This annex is valid from: **02-06-2015** to **01-05-2018** Replaces annex dated: **29-04-2015**

Location(s) where activities are performed under accreditation

Head Office

Meander 1051
6825 MJ
Arnhem
The Netherlands

Location	Certification Scheme
DEKRA Certification B.V. Head office Meander 1051 6825 MJ Arnhem The Netherlands	KEMA-KEUR, ENEC, Low power measurements, Power capacitors - Low-voltage power factor correction banks, CCV-Certificatieschema, HIQURE, National Guideline for the KOMO®, EMC Directive, ATEX Directive, Machinery directive, EPA Energy Star program, NTA 8081.
Unit 1-14, 6/F Fuk Shing Commercial Building, Fanling, 28 On Lok Mun Street Hong Kong China	KEMA-KEUR, Low power measurements.
10F #250 Jiangchangsan Road, Building 16 Headquarter Economy Park, Shibei Hi-Tech Park 200436 Shanghai China	KEMA-KEUR, Low power measurements.
DEKRA House, Block A3 No 3 Qiyun Road 510630 Guangzhou China	KEMA-KEUR, Low power measurements.

This annex has been approved by:

Ir. J.C. van der Poel
Chief Executive

Annex to ISO/IEC 17065:2012 declaration of accreditation
for registration number **C 001**

of **DEKRA Certification B.V.**

This annex is valid from: **02-06-2015** to **01-05-2018** Replaces annex dated: **29-04-2015**

Product[1]/ Product Group	**Certification Scheme[2]**	**Standard / normative document[3]**
Existing utility buildings	Issuing an "Energielabel" (Energy Label), Existing Utility buildings. Initial organisation audit and project inspection. Annual surveillance: • Organisation audit • Project inspection *(S396)*	BRL 9500-00 BRL 9500-03
	Issuing an "EPA-Maatwerkrapport" (Energy Performance Advice - Tailor-made report), Existing Utility buildings. Initial organisation audit and project inspection. Annual surveillance: • Organisation audit • Project inspection *(S396)*	BRL 9500-00 BRL 9500-04
The accreditation for the activities below is suitable for notification.		
Electrical and electronic equipment	EMC Directive (Elektromagnetic compatibility) • Examination of the technical construction file	European directive 2004/108/EC, annex III, subsection 3
Equipment in equipment group I, as follows: Equipment of group I, as far as testing procedures match with group II	ATEX directive • EC-type examination • Product verification • Conformity to type • Unit verification	European directive 94/9/EC • annex II and annex III • annex II and annex V • annex II and annex VI • annex II and annex IX
Equipment in equipment group II, as follows: - Non electrical equipment - Electrical equipment - Components - Safety devices, controlling devices and regulating devices		
Products mentioned under 1 to 8 inclusive in annex IV of the European directive 2006/42/EC	Machinery directive • EC type examination	European directive 2006/42/EC • annex IX