INTERNATIONAL ELECTROTECHNICAL COMMISSION SCHEME FOR CERTIFICATION TO STANDARDS RELATING TO EQUIPMENT FOR EXPLOSIVE ATMOSPHERES (IECEx SCHEME)

Circulation to: Ex Management Committee

Title: IECEx Re-assessment Report for Intertek Testing and Certification Ltd, ITS, Accepted Certification Body (ExCB), and a request for an extension of scope

INTRODUCTION

This document contains the IECEx Re-assessment Report for ITS, Accepted Certification Body (ExCB). During the re-assessment visit an assessment for an extension of scope was also carried out. ExMC Members are asked to consider ITS' request for an extension of scope.

Please complete and return the completed voting form to the Secretariat by 2008 10 24

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

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IECEx Secretariat

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IECEx RE- ASSESSMENT REPORT FOR INTERTEK TESTING AND CERTIFICATION LTD (IECEx Certification Body ExCB)

Type of Assessment: (please mark)

Initial Assessment for Candidate ExCB

Re-Assessment of ExCB X

Scope Extension of ExCB X

1. OBJECT AND FIELD OF APPLICATION

1.1. Country:

GB

1.2. Name of ExCB

Intertek Testing and Certification Ltd

Note: at the time of the assessment the website showed 'Intertek ETL SEMKO Division'. This was subsequently changed on advice from Intertek.

1.3. Members of the Assessment Team

Jim Munro – Chairman Panel of Assessors – Lead Assessor
Alexander Zalogin – Managing Director Nanio CCVE, Assessor

1.4. Place and Date of Assessment

Intertek House
Cleeve Road
Leatherhead
Surrey KT22 7SB
UNITED KINGDOM

25 to 26 June 2007, and 3 September 2007 (Jim Munro only)
(5 man-days)

1.5. Assessment References

i) IECEx 02 Third Edition 2006 11 IECEx Scheme rules of procedure
ii) IECEx OD 003/V1 IECEx Assessment procedures
iii) IECEx OD 005/V2 Quality System requirements for manufacturers
iv) IECEx OD 009/V1 Issuing of CoCs, ExTRs and QARs
v) IECEx OD 025/V1 Management of assessment and surveillance programs for manufacturers (includes QAR forms)
vi) ISO/IEC Guide 65:1996
vii) IECEx Document OD 017/V3 Drawing and documentation guidance

1.6 Scope of Application

Current Scope:
IEC 60079-0 Part 0: General requirements
IEC 60079-1 Part 1: Flameproof enclosures 'd'
IEC 60079-2 Part 2: Pressurized enclosures 'p'
IEC 60079-5 Part 5: Powder filling 'q'
IEC 60079-6 Part 6: Oil-immersion 'o'
IEC 60079-7 Part 7: Increased safety 'e'
IEC 60079-11 Part 11: Intrinsic safety 'i'
IEC 60079-15 Part 15: Construction, test and marking of type of protection 'n' electrical apparatus
IEC 60079-18 Part 18: Construction, test and marking of type of protection encapsulation 'm' electrical apparatus
IEC 60079-26 Part 26: Construction, test and marking of Group II Zone 0 electrical apparatus – also recommended for next edition – see below
IEC 60079-27 Part 27: Fieldbus intrinsically safe concept (FISCO) and Fieldbus non-incendive concept (FNICO)
IEC 61241-0 Part 0: General requirements
IEC 61241-1 Part 1: Protection by enclosures 'tD'
IEC 61241-1-1 Part 1-1 Apparatus for combustible dusts
IEC 61241-4 Part 4: Type of protection 'pD'
IEC 61241-11 Part 11: Protection by intrinsic safety 'iD'
IEC 61241-18 Part 18: Protection by encapsulation “mD” electrical apparatus
IEC 62086-1 Electrical apparatus for explosive gas atmospheres – Electrical resistance trace heating – Part 1: General and testing requirements

Extension of Scope
IEC 60079-25 Part 25: Intrinsically safe systems
IEC 60079-26 Part 26: Equipment with equipment protection level (EPL) Ga

1.7 Candidate ExCB Persons Interviewed

Name	Position
Andy Austin	Technical Manager, Commercial & Electrical and Deputy Certification Manager
Adrian Smart	Consultant Engineer
Rob Kellock	Quality Manager and Certification Manager (for first visit and who left prior to the second visit)
Neil Irvine	Deputy Quality Manager (Quality Manager for second visit)

1.8 Legal Entity of the Candidate ExCB

Intertek Testing and Certification Ltd is a listed company in the UK, company number 03272281. It is part of the Intertek Group PLC which is a publicly listed company. This in turn is part of the division of the international company, Intertek. This division is called Intertek ETL SEMKO but will be undergoing a name change.

1.9 Associated Testing Laboratories

The ExTL is integral with the ExCB.

1.10 Associated Certification Functions

They are a notified body for ATEX. Intertek are also involved in a wide area of other types of testing and certification They also cover electrical wiring and accessories, gas, electronics and medical, controls and luminaires, materials, and environmental. They are accepted certification and testing body in the IECEE Scheme.

1.11 National Marks and Certificates

They only use ATEX for Ex equipment in addition to IECEx.

1.12 Financial Support

The company relies on fees charged to applicants for certification and testing for its operation.

1.13 History

Intertek Testing and Certification Limited was formed on the 1st July 1999 subsequent to the purchase by ITS of ERA Technology's Product Assessment Division. The purchase involved the merging of ITS Cranleigh (UK) Limited and the Product Assessment Division of ERA Technology Ltd. to form Intertek Testing and Certification Limited to be based on the ERA Technology site at Leatherhead, Surrey. A further site at Milton Keynes has been added with the purchase of the Consumers' Association Research & Testing Centre. The name was changed to Intertek Testing & Certification on 1 September 2003.

1.14 Standards Accepted

See clause 1.6 of this report

1.15 National Differences to IEC Standards

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

2. ORGANISATION

2.1. *Names, Titles and Experience of the Senior Executives*

Name in Ex	Title	Experience
Andy Austin	Certification Officer	28 years
Adrian Smart	Deputy Certification Officer	25 years
Vijay Varma	Deputy Certification Officer	15 years

2.2. ***Name, Title and Experience of the Quality Management Representative***

Name	Title	Experience
Rob Kellock	Quality Manager and Certification	5 years as QM
Then Neil Irvine	Quality Manager	15 years
and Philippa Hutton	Deputy Quality Manager	15 Years
And later also David Bosson from Epsilon	Deputy Quality Manager	2 in Ex 9 in QA & 11 in EMC

Note: Rob Kellock left soon after the first visit and his position as Quality Manager was taken by Neil Irvine. Then when Intertek acquired Epsilon, David Bosson, who had been Quality Manager at Epsilon took on the role of Deputy Quality Manager for Intertek with responsibility for Ex matters.

2.3. ***Name and Title of Nominated Principal Contact***

Name	Title	Comments
Andy Austin	Certification Manager	

2.4. ***Name and Title of Signatories for Certification***

Name	Title	Comments
Andy Austin	Certification Officer	
Adrian Smart	Deputy Certification Officer	
Vijay Varma	Deputy Certification Officer	

The senior staff of the ExTL are the same as the ExCB. Procedures have been put in place to require that the same personnel involved in the certification function for a certificate cannot be involved in the testing function for the same certificate.

2.5. ***Other Employees in ExCB activity***

Name	Title	Responsibility
None		

However, employees from the ExTL may be used for ExCB activities with the condition that in the issuance of an IECEx certificate of conformity, the same personnel involved in the certification function for a certificate cannot be involved in the testing function for the same certificate.

2.6. ***Organizational Structure***

The overall organization structure for Intertek is shown at Annex 1 with the structure for the ExCB and ExTL shown at Annex 2.

2.7. ***Administration***

2.7.1. Administrative Structure
See above.

2.7.2. Indemnity Insurance

Professional Indemnity
Intertek Group plc maintains a Professional Indemnity Policy, which includes all subsidiary and/or associated companies within the group. The policy which is for GBP 2,000.000.was viewed.

Public and Products Liability
Intertek Testing Services maintains this insurance with a limit of indemnity of GBP 2,000,000 on any one occurrence for Public Liability risks and any one Period for Product Liability risks. The policy was viewed.

3. RESOURCES

There is a total of 7 staff employed in Ex activities. 3 staff have roles in the ExCB and the rest are mainly involved in testing.

Isolation of ExCB and ExTL activities is ensured by virtue of the fact that no staff member may act in the capacity of both ExTL and ExCB for the same project (detailed in procedure ODIECEx01).

Some ExTL staff may be involved in QAR audits on behalf of the ExCB.

4. COMMITTEES / Governing Board / Appeals / Advisory Board

The main committee involved with Intertek is the Safeguarding Committee. The Safeguarding Committee is a body composed of representatives from industry, trade associations, users and public institutions that are appointed or removed by the Directors of The Company. It advises the Certification Body, reviews complaints, provides arbitration on appeals, provides assistance with policies and has a financial overview of the Certification Body. There is a separate Appeals Panel (see later).

5. CERTIFICATION OPERATIONS

5.1. *National Approval/Certification Methods*

Intertek is a notified body under ATEX.

5.2. *Certification Policy*

The policy on certification is incorporated in Quality Policy Statement in the Quality Manual.

5.3. *Application for Certification*

Applications are received into a customer service area. It was advised that they liaise with the technical staff in doing the contract review although this was not reflected in the procedure sighted. A quote is provided to the customer. When the job arrives the samples are identified and the job is allocated to the engineer who will be responsible for the project.

5.4. *Withdrawal and Cancellation of Certificates*

There are requirements for withdrawal and cancellation of certificates in the Quality Assurance Manual and in procedure SOP-IC. Initially there did not include reference to the IECEx Scheme but procedures were subsequently changed to address this.

6. STATISTICS

6.1. Certificates Issued

Number of certificates issued under the IECEx, national or regional schemes in the preceding four years for each type of protection:

Standards	**Type of Protection**	**Number of issued certificates**				
		2004	2005	2006	2007	Total
						Part 0 included in numbers below
60079-1	Ex d	3	1	0	9	**13**
60079-7	Ex e	1	0	1	3	**5**
60079-11	Ex i	1	6	7	11	**25**
60079-18	Ex m	1	0	1	3	**5**
60079-15	Ex n	0	2	6	1	**9**
60079-2	Ex p	0	0	0	8	**8**
60079-4	Ex q	1	0	1	0	**2**
61241	Dusts	2	3	2	3	**10**

In the above period they have also issued over 200 type examination certificates for ATEX.

7. DOCUMENTATION

7.1. Quality Manual

The highest level document is a Quality Assurance Manual. The manual viewed at the first assessment visit had a number of deficiencies and was subsequently essentially rewritten. The new manual was found to be a significant improvement. Requirements that were previously addressed in a separate certification manual were included in the revised quality manual and the certification manual was withdrawn.

At the time of the first assessment visit there were no procedures relevant to the Scheme that addressed issuing and withdrawal of certificates. A new procedure was subsequently issued that covered this.

7.2. Procedures

Other documents in the quality system are the Standard Operating Procedures, Forms and a Master Document List. There is also a competency matrix.

At the time of the first assessment visit the procedures made reference to a certificate register but that was primarily for certificates other than IECEx. There was no reference to the IECEx on-line certificate system hence it did not make clear that this is the authoritative source for IECEx certificates issued.

Procedures were subsequently developed making reference to the On-line IECEx certification system. Initially passwords were included in CM-ATEXIECEx01 but they were subsequently removed from that procedure. The use of the IECEx online certification system and the control of passwords are now documented in procedure OD-IECEx01 (Section 4). This document now states that passwords will be held by the certification manager and only released to authorized persons.

Procedure 9, for acceptance of manufacturers' testing including witness testing, reviewed during the first assessment visit, did not address control over the process by Intertek and it was not clear under what circumstances Intertek staff might or might not be present at the testing. These requirements were subsequently satisfactorily addressed in revised procedures to the satisfaction of the assessment team.

In the procedures initially reviewed titles in the procedures did not line up with actual titles. For example Certification Manager and Technical Supervisor appeared in the procedures but are not titles in the company structure. Subsequently procedures were reviewed to achieve consistency in titling.

7.3. Work Instructions

At the next level work instructions are divided into Certification Work Instructions (CWIs) and Testing Work Instructions (TWIs).

7.4. Records

Most records are retained in hard copy in a file. The Quality Manual specifies a period of 6 years for retention of records. Some records are retained electronically. A systematic system of back-up and archival storage is used. This is detailed in procedure LHD Backup Procedure v1 00

There is a document control procedure that states that documents are retained for a period of 6 years except where longer periods are a legal requirement.

7.5. Document Change Control

The only authorised copies are those held on the Intranet. Copying of single procedures is permitted but it should be noted that they are only valid for the period of the test for which they have been called up. All documents contain the footer 'UNCONTROLLED IF PRINTED'.

8. CONFIDENTIALITY

All staff are required, on joining the company, to sign a confidentiality agreement, requiring them to observe confidentiality in all aspects of their work and to preserve the proprietary rights of the company and its customers. A copy of this agreement is maintained by the HR Executive. An example of a signed agreement was sighted.

9. PUBLICATIONS

There is a magazine that the company issues called 'Update'.

10. NATIONAL ACCREDITATION

Intertek hold UKAS Certification Body certificate No. 121-B (Annex 3). The schedule is shown at Annex 4. IEC 62086-1 is not shown, although electric surface hearing devices to BS 6351: PART 1:1983 is**.** Intertek indicated that UKAS assesses to the latest standards but there is an administrative cost of applying to have the schedule changed. However, they have applied to have the schedule updated and have been advised that this will take some time (possibly more than a year). It was also noted that IEC 60079-27 does not appear to be included in the scope. However, IEC 60079-11 is in the scope and can be reasonably accepted to cover the other standard.

11. RECOGNITION AND AGREEMENTS

There are no agreements with other bodies in the Ex field.

12. INTERNAL AUDIT AND PERIODIC MANAGEMENT REVIEW

There is a yearly program managed by the Deputy Quality Manager that aims to audit each area once in the year these are horizontal audits. They also do vertical audits. A number of staff have been trained as internal auditors. The program and an example of an audit report were seen.

The report for the meeting of Quality Management Review held on 13 December 2006 was reviewed. These meetings are held at the end of each year.

It was found that there was a discrepancy in the reporting for management review regarding the number of certificates issued. The reported numbers were significantly less than shown by the on-line IECEx certificate of conformity system. This was subsequently investigated by Intertek and, while the reason was not evident, it was agreed that for future reference, the IECEx website will be used whenever there is a need to determine the number of certificates issued under the IECEx scheme.

13. SUBCONTRACTING, USE OF OTHER LABS AND USE OF OTHER LOCATIONS

At the time of the first assessment visit here was more than one procedures covering how subcontracting would occur. As part the major overhaul of the Quality Management system after the visit, a single new procedure SOP-SCS 1.0 was issued. This requires testing bodies to have formal accreditation where possible and practicable.

Intertek have the capability to carry out nearly all tests required by the standards but the Resistance to Light test of IEC 60079-0 was identified as one test that will need to be subcontracted. The company subcontracted to do this testing is included in the list of subcontractors.

Examples of the review of subcontractors, including the body that does most of the calibration, were sighted. This was done by way of a questionnaire. Most are accepted on the basis of UKAS accreditation.

14. TRAINING

Training is covered in section 2.4 of the Quality Assurance Manual. Procedure SOP-HR covers training in more detail. There is a document covering certification body competence criteria. There is a performance review and development plan that is done each year and where an individual's training for the coming year is targeted.

15. ASSESSMENT OF MANUFACTURERS AND ISSUE OF QARS

QAR, Audit report No 05018632 now GB/ITS/QAR06.0002/00 was reviewed and found to be satisfactory with good supporting notes.

16. COMPLAINTS AND APPEALS (Including appeals to IECEx)

All complaints are to be brought to the attention of the relevant Department Manager and the Quality Manager. If either considers the complaint to be serious, it is brought to the attention of the General Manager. Details of the complaint and any remedial action are recorded to enable review at the Annual Review, and included as an agenda item in management meetings Refer to Quality Manual Section 4

The Quality Manual has procedures for appeal but there is also a separate more detailed procedure. At the time of the first assessment visit there was a discrepancy between the two procedures regarding composition of the appeals panel. There was also no reference to the provision for appeals to the Scheme or the provision of information to the customer that they are entitled to appeal to the Scheme. This was subsequently addressed in the revised procedures to the satisfaction of the assessment team.

17. SPECIAL FACTS TO BE NOTED

17.1. Supporting Documentation

Copies of additional supporting information for this assessment have been provided to the applicant and the IECEx Secretariat. These include:

- Details of issues raised and how these have been resolved
- Checklist for ISO/IEC Guide 65

17.2. Review of Certificates

CoCs IECEx ITS 06.0012 (Ex i, DIP, FISCO), IECEx ITS 06.0013 (Ex i, FISCO), IECEx ITS 06.0015 (nL, DIP, FNICO) and the associated files were reviewed. It was found that the cover page and evaluation record of ExTR GB/ITS/ExTR06.0007/00 and other ExTRs associated with the above certificates were signed by same person (Vijay Varma).

In another CoC it was found that there was an ExCB signatory in the position designated for the ExTL review.

The procedures were subsequently changed to the satisfaction of the assessment team to avoid this happening in the future.

18. COMMENTS (Including issues found during assessment)

There were a number of issues found during the assessment as detailed throughout this report and in Annex A of the site report.

It was found during the first on-site visit that the quality documentation, including procedures relevant to the IECEx Scheme, needed to be revised. When this was done there was a further on-site visit to review and discuss the new documentation to investigate progress in resolving the issues raised during the first visit. Progress on resolving these issues continued after this visit and were resolved to the satisfaction of the assessment team.

During this latter period Intertek acquired Epsilon Compliance Limited and the Quality Manager from Epsilon, David Bosson, took on the Deputy Quality Manager role with responsibility for Ex.

19. RECOMMENDATION

Based on the assessment performed on 25-26 June and 3 September 2007, Intertek Testing and Certification Ltd is recommended for continued acceptance in the IECEx scheme as an IECEx Certification Body (ExCB) according to the scope of the standards listed in this document, including the extension of scope.

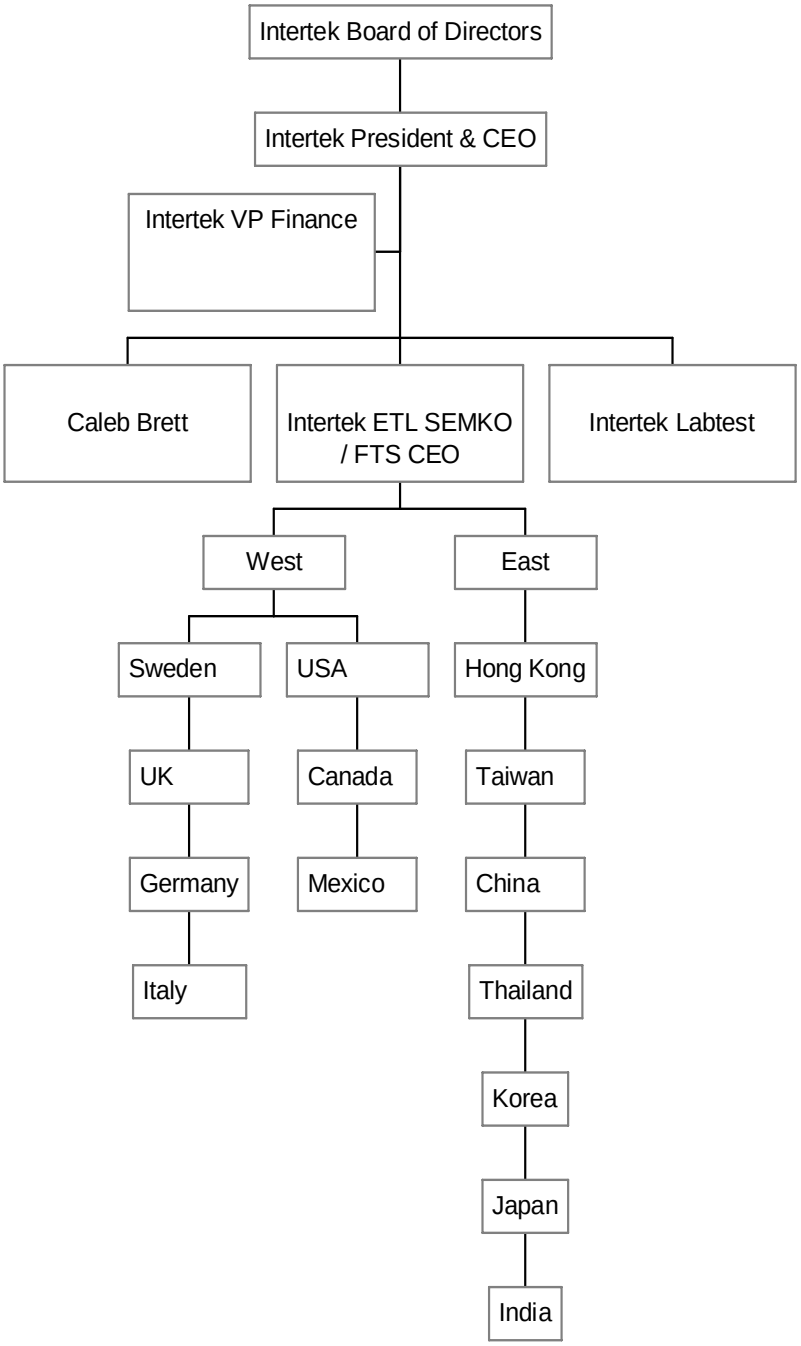
Jim Munro	Alexander Zalogin
Lead Assessor	Expert Assessor

Date: 12 September 2008

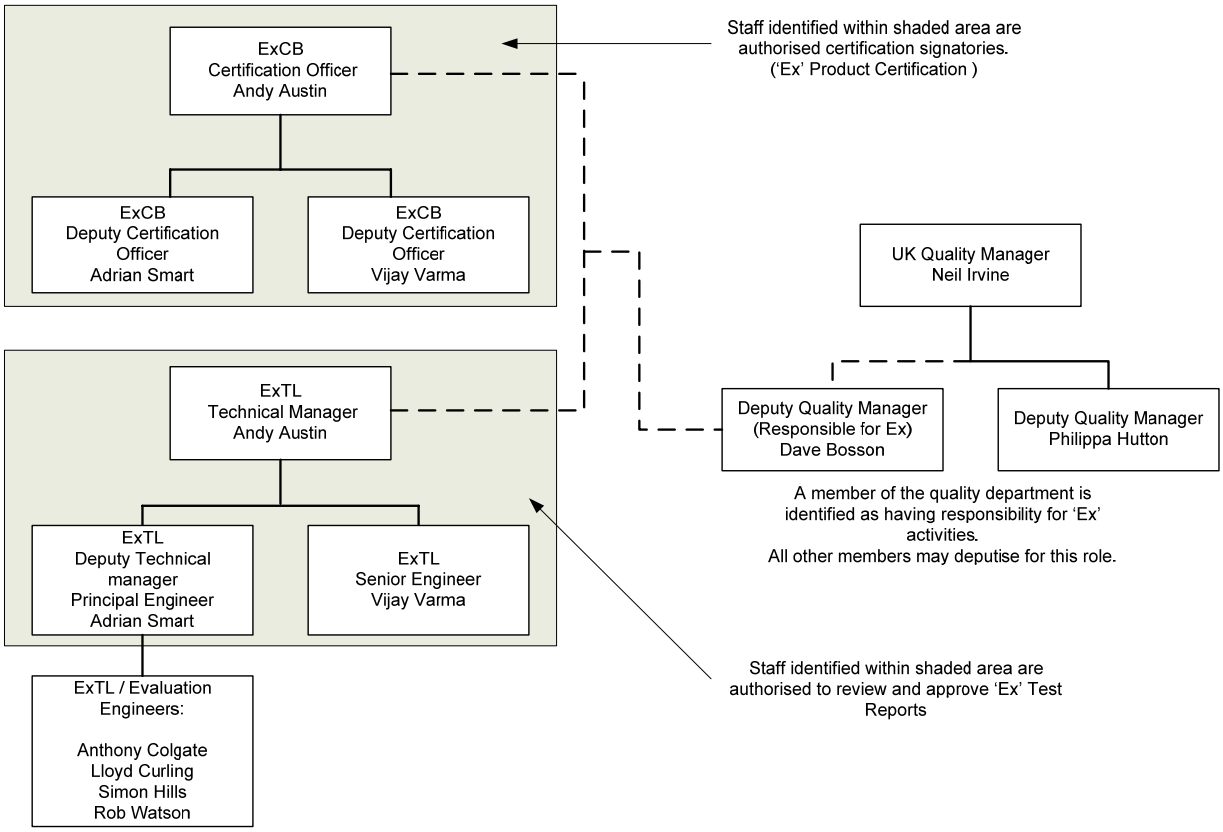
List of Annexes:

1. Overall Organization Chart of Intertek
2. Structure of IECEx CB and IECEx TL
3. Accreditation Certificate for Product Certification
4. Scope of Accreditation Certificate

Annex 1
Overall Organization Chart of Intertek



Annex 2
Structure of IECEx CB and IECEx TL



Annex 3
Accreditation Certificate for Product Certification

United Kingdom Accreditation Service

ACCREDITATION CERTIFICATE

UKAS
UNITED KINGDOM ACCREDITATION SERVICE

CERTIFICATION BODY
No. 121

Intertek Testing & Certification Limited

is accredited in accordance with the recognised European Standard EN 45011:1998 (ISO/IEC Guide 65:1996) *General Requirements for bodies operating product certification systems.*

This accreditation demonstrates technical competence for a defined scope as detailed in and at the locations specified in the schedule to this certificate.

The schedule to this certificate is an essential accreditation document and from time to time may be revised and reissued by the United Kingdom Accreditation Service. The most recent issue of the schedule of accreditation, which bears the same accreditation number as this certificate, is available from the UKAS website www.ukas.com.

This accreditation is subject to continuing conformity with United Kingdom Accreditation Service requirements. The absence of a schedule on the UKAS website indicates that the accreditation is no longer in force.

D. J. Maynard

Accreditation Manager, United Kingdom Accreditation Service

Initial Accreditation date
23 February 2000

This certificate issued on
04 October 2006

The Department of Trade and Industry (DTI) has entered into a memorandum of understanding with the United Kingdom Accreditation Service (UKAS) through which UKAS is recognised as the national body responsible for assessing and accrediting the competence of organisations in the fields of calibration, testing, inspection and certification of systems, products and persons

Annex 4
Scope of Accreditation Certificate

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

UKAS PRODUCT CERTIFICATION 121 Accredited to EN 45011:1998 (ISO/IEC Guide 65:1996) to provide product conformity certification	**Intertek Testing & Certification Limited** **Issue No:** 004 **Issue date:** 01 February 2008	
	Intertek House Cleeve Road Leatherhead Surrey KT22 7SB	Contact: Mr A Austin Tel: +44 (0)1372 370900 Fax: +44 (0)1372 370999 E-Mail: andy.austin@intertek.com Website: www.uk.intertek-etlsemko.com

Locations where certification activities covered by the above Accreditation Standard are undertaken	
Intertek Testing & Certification Limited Intertek House Cleeve Road Leatherhead Surrey KT22 7SB United Kingdom	

UKAS PRODUCT CERTIFICATION 121 Accredited to EN 45011:1998 (ISO/IEC Guide 65:1996) to provide product conformity certification	**Schedule of Accreditation** issued by **United Kingdom Accreditation Service** 21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK **Intertek Testing & Certification Limited** **Issue No:** 004 **Issue date:** 01 February 2008

DETAIL OF ACCREDITATION

Product	Standard
Electrical apparatus for explosive gas atmospheres: General requirements	BS EN 60079-0:2006 EN 60079-0:2006 IEC 60079-0:2006 BS EN 60079-0:2004 EN 60079-0:2004 IEC 60079-0:2004 BS EN 50014:1998 (withdrawn) EN 50014:1997 (withdrawn)
Oil immersion 'o'	BS EN 50015:1998 EN 50015:1998 BS EN 50015:1994 EN 50015:1994 IEC 60079-6:1995
Pressurised apparatus 'p'	BS EN 60079-2:2004 EN 60079-2:2004 IEC 60079-2:2001 BS EN 50016-2:2002 (withdrawn) EN 50016-2:2002 (withdrawn) BS EN 50016:1996 (withdrawn) EN 50016:1995 (withdrawn)
Powder filling 'q'	IEC 60079-5:2003 BS EN 50017:1998 EN 50017:1998 IEC 60079-5:1997 BS EN 50017:1994 EN 50017:1994
Flameproof enclosures 'd'	BS EN 60079-1:2004 EN 60079-1:2004 IEC 60079-1:2003 BS EN 50018:2000 (withdrawn) EN 50018:2000 (withdrawn) BS EN 50018:1995 (withdrawn) EN 50018:1994 (withdrawn)

UKAS PRODUCT CERTIFICATION 121 Accredited to EN 45011:1998 (ISO/IEC Guide 65:1996) to provide product conformity certification	**Schedule of Accreditation** issued by **United Kingdom Accreditation Service** 21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK **Intertek Testing & Certification Limited** **Issue No:** 004 **Issue date:** 01 February 2008

Product	Standard
Increased safety 'e'	BS EN 60079-7:2003 EN 60079-7:2003 BS EN 50019:2000 (withdrawn) EN 50019:2000 (withdrawn) BS EN 50019:1994 (withdrawn) EN 50019:1994 (withdrawn)
Intrinsic safety 'i'	IEC 60079-11:1999 BS EN 50020:2002 EN 50020:2002 BS EN 50020:1995 (withdrawn) EN 50020:1993 (withdrawn)
Intrinsically safe electrical systems	BS 5501-9:1982 (withdrawn) EN 50039:1980 (withdrawn)
Encapsulation 'm'	BS EN 60079-18:2004 EN 60079-18:2004 IEC 60079-18:2004 IEC 60079-18:1992 (withdrawn) BS 5501-8:1988 (withdrawn) EN 50028:1987 (withdrawn)
Type of protection 'n'	BS EN 60079-15:2005 EN 60079-15:2005 IEC 60079-15:2005 BS EN 60079-15:2003 EN 60079-15:2003 IEC 60079-15:2001 BS EN 50021:1999 (obsolescent) EN 50021:1999 (obsolescent) BS 6941:1988 (withdrawn)
Electrical Apparatus for use in dust atmospheres General requirements	BS EN 61241-0:2006 EN 61241-0:2006 IEC 61241-0:2004
Protection by enclosure "tD"	BS EN 61241-1:2004 EN 61241-1:2004 IEC 61241-1:2004

UKAS PRODUCT CERTIFICATION 121 Accredited to EN 45011:1998 (ISO/IEC Guide 65:1996) to provide product conformity certification	**Schedule of Accreditation** issued by **United Kingdom Accreditation Service** 21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK **Intertek Testing & Certification Limited** **Issue No:** 004 **Issue date:** 01 February 2008

Product	Standard
Luminaire - Specification for general requirements and tests	BS 4533:Part 101:1990 (withdrawn) EN 60598-1:1989 (withdrawn)
Luminaires with type of protection N	BS 4533:Part 102:Section 102.51:1986 (withdrawn)
Electric surface heating devices	BS 6351:Part 1:1983
Metallic cabling glands	BS 6121:Part 1:2005 BS 6121:Part 1:1989 (withdrawn)
Petroleum Forecourt Dispensers	BS 7117-1:1991 (withdrawn) BS 7117-2:1991 (withdrawn) BS 7117-3:1991 (withdrawn)
Electrical apparatus for the detection and measurements of combustible gases: General requirements	 BS EN 50054:1999 (withdrawn)
Performance requirements for Group I apparatus indicating up to 5% (V/V) methane in air	BS EN 50055:1999 (withdrawn)
Performance requirements for Group I apparatus indicating up to 100%(V/V) methane in air	BS EN 50056:1999 (withdrawn)
Performance requirements for Group II apparatus indicating up to 100% lower explosive limit	BS EN 50057:1999 (withdrawn)
Performance requirements for Group II apparatus indicating up to 100% (V/V) gas	BS EN 50058:1999 (withdrawn)
Electrical apparatus for use in the presence of combustible dust	BS EN 50281-1-1:1999 EN 50281-1-1:1998

UKAS PRODUCT CERTIFICATION 121 Accredited to EN 45011:1998 (ISO/IEC Guide 65:1996) to provide product conformity certification	**Schedule of Accreditation** issued by **United Kingdom Accreditation Service** 21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK **Intertek Testing & Certification Limited** **Issue No:** 004 **Issue date:** 01 February 2008

Product	Standard
Reciprocating Internal Combustion Engines for use in potentially explosive atmospheres	
Group II engines for flammable gas and vapour atmospheres	BS EN 1834-1:2000 EN 1834-1:2000
Group I engines for workings susceptible to firedamp and/or combustible dust	BS EN 1834-2:2000 EN 1834-2:2000
Group II engines for flammable dust atmospheres	BS EN 1834-3:2000 EN 1834-3:2000
Small Craft; Electrical Devices: Protection against ignition of surrounding flammable gases	BS EN 28846:1993 EN 28846:1993
Flame arrestors	BS 7244:1990 BS EN 12874:2001 EN 12874:2001
Electrical equipment for measurement, control and laboratory use	BS EN 61010-1:2001 EN 61010-1:2001 IEC 61010-1:2001
Laboratory equipment for the heating of materials	BS EN 61010-2-010:2003 EN 61010-2-010:2003 IEC 61010-2-010:2003
Hand held probe assemblies for electrical measurement and test	BS EN 61010-031:2002 EN 61010-031:2002 IEC 61010-031:2002
Hand held current clamps for electrical measurement and test	BS EN 61010-2-032:2002 EN 61010-2-032:2002 IEC 61010-2-032:2002
END	