



**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 FM Approvals Ltd
as an Accepted Certification Body (ExCB)**

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 Re-assessment Report for *FM Approvals Ltd* as an Accepted Ex **Certification Body (ExCB)**.

This report is issued for endorsement during the 2013 Fortaleza, Brazil Meeting.

Chris Agius
IECEx Secretariat

<p>IECEx Secretariat Standards Australia Building 286 Sussex Street Sydney NSW 2000 Australia</p>	<p>Tel: +61 2 8206 6940 Fax: +61 2 8206 6272 Email: chris.agius@iecex.com</p>
--	---



ExMC/842/R
May 2013

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

IECEx ExCB Re-assessment report for FM Approvals Ltd



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:	5
1.2	Type of assessment:	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)	5
1.5	Application information	6
1.6	IECEX Scopes	6
1.6.1	ExCB scope for equipment certification scheme	6
2	Common information	7
2.1	Legal entity of body	7
2.2	Financial support	7
2.3	History	8
2.4	Documentation	8
2.4.1	Quality manual	8
2.4.2	Procedures	8
2.4.3	Work instructions	8
2.4.4	Records (including test records where relevant)	8
2.4.5	Document change control	8
2.5	Confidentiality	8
2.6	Publications	9
2.7	Recognition and agreements	9
2.8	Internal audit and periodic management review	9
2.8.1	Management Review	9
2.8.2	Internal Audits	9
2.9	Subcontracting, use of other labs and use of other locations	10
2.10	Training and competence	10
2.11	Complaints and appeals (including appeals to IECEx)	10
2.11.1	Complaints	10
2.11.2	Appeals	10
2.12	Special facts to be noted	11
2.12.1	Supporting documentation	11
2.13	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	National marks and certificates	12
3.5	Standards accepted	13



3.6	National differences to IEC standards	13
3.7	Organisation.....	13
3.7.1	Names, titles and experience of the senior executives.....	13
3.7.2	Name, title and experience of the quality management representative.....	13
3.7.3	Name and title of signatories for certification.....	13
3.7.4	Other employees in ExCB activity.....	13
3.8	Organizational structure	13
3.9	Administration	14
3.9.1	Administrative structure	14
3.9.2	Indemnity insurance	14
3.10	Resources	14
3.11	Committees (such as governing or advisory boards)	14
3.12	Certification operations	15
3.12.1	National approval/certification methods	15
3.12.2	Certification policy	15
3.12.3	Application for certification.....	15
3.12.4	Certification decision	15
3.12.5	Suspension and cancellation of certificates.....	15
3.13	Certificates issued	15
3.14	National accreditation	16
3.15	Assessment of manufacturers and issue of QARs and CoCs	16
3.16	Comments (including issues found during assessment)	16
4	Annexes.....	16
	Annex A Overall Organisation Chart	17
	Annex B Organisation Chart of ExCB in UK.....	18
	Annex C Accreditation Certificate for Product Certification	19



1 Assessment information

1.1 Type of Body covered by this assessment:

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:

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

1.3 Details of body

1.3.1 Country

United Kingdom

1.3.2 Name of body

FM Approvals Ltd

1.3.3 Name and title of nominated principal contact

Name	Title	E-mail address
Andrew Was	EMEA Auditing and Quality Manager	andrew.was@fmaprovals.com

1.4 Assessment information

This assessment was conducted as a joint IECEx/UKAS assessment according IEC/IAF/ILAC MOU.

1.4.1 Members of the assessment team

Name	Role (modify as necessary)
Christopher Bestwick,	UKAS lead assessor
Jim Munro	IECEX lead assessor
Fred Lankamp	IECEX expert assessor
Robert Stuart	UKAS assessor

1.4.2 Place(s) of assessment

1 Windsor Dials SL4 1RS Windsor United Kingdom	
--	--

1.4.3 Assessment date(s)

11-12 October 2012



1.5 Application information

Not applicable

1.6 IECEx Scopes

1.6.1 ExCB scope for equipment certification scheme

Number	Title
IEC 60079-0 Edition 6	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-1 Edition 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-2 Edition 5	Explosive atmospheres - Part 2: Equipment protection by pressurized enclosure «p»
IEC 60079-5 Edition 3	Explosive atmospheres - Part 5: Equipment protection by powder filling «q»
IEC 60079-6 Edition 3	Explosive atmospheres - Part 6: Equipment protection by oil immersion «o»
IEC 60079-7 Edition 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
IEC 60079-11 Edition 6	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-15 Edition 4	Explosive atmospheres – Part 15: Equipment protection by type of protection "n"
IEC 60079-18 Edition 3	Explosive atmospheres – Part 18: Equipment protection by encapsulation "m"
IEC 60079-25 Edition 2	Explosive atmospheres – Part 25: Intrinsically safe electrical systems THIS WAS RECOMMENDED FOR INCLUSION AT THE RE-ASSESSMENT SUBJECT TO THE ExTL ALSO INCLUDING IT IN THEIR SCOPE. THIS SUBSEQUENTLY OCCURRED.
IEC 60079-26 Edition 2	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga
*IEC 60079-27 Edition 2	Explosive atmospheres – Part 27: Fieldbus intrinsically safe concept (FISCO)
IEC 60079-29-1 Edition 1	Explosive atmospheres - Part 29-1: Gas detectors – Performance requirements of detectors for flammable gases
IEC 60079-30-1 Edition 1	Explosive atmospheres – Part 30-1: Electrical resistance trace heating – General and testing requirements
IEC 60079-31 Edition 1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
*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 for use in the presence of combustible dust- Part1-1: Apparatus for combustible dusts



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 61779-1 Edition 1	Electrical apparatus for the detection and measurement of flammable gases - Part 1: General requirements and test methods
*IEC 61779-4 Edition 1	Part 4: Performance requirements for Group II apparatus indicating explosive limit
*IEC61779-5 Edition 1	Part 5: Performance requirements for Group II apparatus indicating 100% gas
*IEC 62086-1 Edition 1	Electrical resistance trace heating – Part 1: General and testing requirements

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.

2 Common information

2.1 Legal entity of body

FM is a legal entity within the UK, registered at Companies House in September 2005 under the number 5568547. FM Approvals is a wholly owned subsidiary of FM Approvals LLC which is wholly owned by FM Insurance Company of Rhode Island USA.

FM Approvals Ltd, (herein referred to as FM Approvals,) is a company limited by guarantee and has its registered office at 1 Windsor Dials, Windsor, Berkshire, SL4 1RS, United Kingdom.

2.2 Financial support

FM Approvals Ltd operates as a cost centre of FM Approvals LLC and as such has the backing of the parent organisation to sustain the on-going certification activities. They have an annual budget which covers expenses such as salaries, travel, training rent etc.

All financial income is derived from the certification activities. The last set of accounts lodged at Companies' House were for the financial year ending 31/12/2011 and had been reviewed by independent auditors Ernest & Young LLP.

The accounts indicate that FM Approvals has adequate resources to maintain its existing activities for the foreseeable future and the directors are not aware of anything that would change this.

The income for FM is fairly well spread over the customer base and is not significantly dependent upon any one customer.



2.3 History

The parent certification body FM Approvals LLC in the USA obtained IECEx acceptance as an ExCB and ExTL in 2004. FM Approvals Ltd was established in September 2005. It was accepted as an ExCB in 2007.

2.4 Documentation

2.4.1 Quality manual

There is a harmonised system across FM Approvals throughout the world. The top level is the quality manual that is QM001.

QM002 is the document list containing links to all relevant documents.

InMagic is used as the company wide documentation storage and management system.

2.4.2 Procedures

There are a range of quality procedures, business operation procedures, corporate policy and procedures, and test laboratory procedures. There is also a range of guidelines, technical decisions. There are also scheme manuals for the various schemes, including IECEx, CM IECEx 001.

2.4.3 Work instructions

There are lower level procedures that FM Approvals produce at the local level.

2.4.4 Records (including test records where relevant)

There are a range of forms in the quality system using the same groups and number systems as used for the procedures. There are also forms for each scheme.

All current project documents are kept in AIM (approvals information management system). Completed projects/archived information is stored electronically in InMagic.

According to their procedures, all FM Approvals records are archived for at least seven years with the exception of FM Approvals certification record files. These files are kept for seven years after expiry of the certificate for quality management system certification files or for 25 years after the manufacturer has ceased to maintain the certificated product for product certification records, or longer if specifically defined in the contract. In practice no critical records are destroyed.

All paper used in FM Approvals offices are deposited in special bins in each office and the paper is then subject to secure destruction.

2.4.5 Document change control

The document change notification process is common across FM Approvals. Only the electronic documents are controlled. Hard copies are considered uncontrolled.

2.5 Confidentiality

In accordance with EA 2/17 requirements FM approvals do not engage in any other activities other than the testing, certification and notified body activities. Specifically it is stated in the Quality Manual that they do not provide any design consultancy services.



Personnel are required to sign a confidentiality, independence & Impartiality agreement FM F825, currently issue 1 dated 1/7/09 (previously form FM F014). The signed agreements for N. Ludlam, V. Aluko and M. Gower along with 3 seconded engineers were seen during the visit

All employees are required to follow the rules and procedures of the company. This is documented in the formal contract of Employment and also the company handbook.

The remuneration of staff does not depend on the number of assessment or on the outcome of such assessments; this is stated in a policy statement in section 3.1 of the Quality Manual.

FM Approvals Ltd have carried out a related bodies study to identify any risks to impartiality, the study is documented in QP 8100 dated 1/6/2010.

2.6 Publications

There are no publications relevant to IECEx. The main document (posted on-line) is the Approval Guide which includes the ATEX certified product.

2.7 Recognition and agreements

There are agreements in place with the principal subcontractors, particularly FM Approvals LLC in the USA. There is also a formal arrangement with SP in Sweden for Construction Directive.

2.8 Internal audit and periodic management review

2.8.1 Management Review

There are policies and procedures in place for the conduct of the Management Review. The procedure is documented in QP 002 currently issue 3 dated 12 April 2012; this details the minimum attendance and provides a suggested agenda and review outputs.

The management review meeting is generally held annually. The last meeting was held on 15th November 2011. Detailed minutes were produced and 3 action points were agreed.

The meeting was attended by JP Roisin, A.Was and M. Gower with reports provided from other staff as necessary.

2.8.2 Internal Audits

Internal audits are also controlled by the procedure documented in QP002. There is a master audit plan and then a copy of the audit plan marked up to show actual progress, Form F 510. The program of audits is comprehensive in nature and includes reviews of the documented systems against the requirements of EN 45011, EA 2/17, URN and IECEx documentation. The 2012 program has also included a documented review against the draft requirements of ISO 17065; Specific audits are carried out against the various clauses of EN 45011 and there are then a series of specific horizontal and vertical audits covering all aspects of the certification process.

A number of internal audits were reviewed during the assessment. Findings are raised and classified as either Major or Minor. The follow up to the audit includes identification of the root cause of the problem and identification and implementation of the corrective action.

Findings raised and the corrective actions taken seemed appropriate for the audits sampled. Records of the audit and evidence of corrective action were also found to be complete.



2.9 Subcontracting, use of other labs and use of other locations

There are policies and procedures in place covering the subject of subcontracting. There are two main procedures, QP 325 cover the use of subcontract testing facilities and QP 820 which covers the Control & Acceptance of Certification Subcontractors.

FM do not have any testing facilities at Windsor and therefore all testing is subcontracted to either other FM facilities, ILAC accredited testing laboratories or the IECEx accepted ExTL FM Approvals LLC as appropriate. There is an online list of interlaboratory agreements maintained on the FM website http://www.fmglobal.com/assets/pdf/FM_Approvals_Interlaboratory_Agreements.pdf

The second procedure QP 820 covers Control & Acceptance of Certification Subcontractors although it also duplicates some of the requirements for testing. This procedure also covers the use of subcontractors for QAN/QAR/FPC audits. FM indicated that in practice although the procedure does permit certification processes to be subcontracted, other than auditing, there has not been a case of FM subcontracting certification assessment work.

2.10 Training and competence

The competence data system and CVs of staff were reviewed, together with the competence criteria. In general, this was found to be satisfactory and all current staff were found to have appropriate competence.

The procedure for training and competence is QP810. This covers both induction training and ongoing training.

2.11 Complaints and appeals (including appeals to IECEx)

2.11.1 Complaints

There is a documented policy in clause 3.10 of the Quality Manual and a separate procedure, QP007 which covers the recording, investigation and resolution of complaints. There was one complaint received in November 2011 regarding turn round time for a project however when investigate by FM it revealed significant delays in sample submission.

2.11.2 Appeals

There is a policy documented in section 3.13 of the Quality Manual, the procedure itself is documented in section 3.3 of QP 505. Appeals are handled via the Safeguarding committee. FM reported that there have been no appeals made against any of their work.

The appeals procedure includes opportunity for

- the opportunity for the appellant to formally present their case;
- provision of an independent element provided by members of the Safeguarding committee;
- provision to the appellant of a written statement of the appeal findings including the reasons for the decisions reached.

Although the decision of the appeals panel is stated as being final, the appeals procedure also makes provision for the matter being raised to the accreditation body and in the case of specific schemes, to the controlling body e.g. the IECEx for IECEx certification matters.



2.12 Special facts to be noted

2.12.1 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:

- Checklist for ISO/IEC Guide 65
- Assessors' notes

Copies of the relevant assessment information including how issues/finding have been resolved are included in UKAS documentation. Copies of this documentation have also been provided to the IECEx Secretariat.

2.13 Recommendations

Based on the assessment performed on 11-12 October, FM Approvals Ltd is recommended for continued acceptance in the IECEx scheme as:

- *An ExCB in the IECEx Certified Equipment Scheme*

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

Chris Bestwick	Jim Munro	Fred Lankamp
UKAS Lead Assessor	IECEx Lead Assessor	Expert Assessor

Date: 23 May 2013



3 ExCB for IECEx Certified Equipment Scheme

3.1 Assessment references

- a) IECEx02 Edition 4, IECEx Certified Equipment Scheme covering equipment for use in explosive atmospheres – Rules of Procedure
- b) OD003-2 Edition 1, Assessment, surveillance assessment and re-assessment of ExCBs and ExTLs operating in the IECEx 02, IECEx Certified Equipment Scheme
- c) OD005-1 Edition1, IECEx Quality System Requirements for Manufacturers – Part 1: Guidance on the establishment and maintenance of a quality system
- d) OD005-2 Edition 2, IECEx Quality System Requirements for Manufacturers – Part 2: Audit Checklist. (This is available in a Word format for use by ExCBs)
- e) ISO/IEC 80079-34 Edition 1, Explosive atmospheres – Part 34: Application of quality systems for equipment manufacture
- f) OD009 Edition 2, Issuing of CoCs, EXTRs and QARs
- g) IECEx Document OD 025 Edition 2, Guidelines on the Management of Assessment and Surveillance programs for the assessment of Manufacturer's Quality Systems in accordance with the IECEx Scheme
- h) OD0026 Edition1, IECEx Certified Equipment Scheme – Guidelines for the qualification of Lead Auditor and Auditors, in accordance with the IECEx System
- i) ISO/IEC Guide 65:1996, Edition 1, General requirements for bodies operating product certification systems
- j) IECEx Document OD17 Edition3, Drawing and documentation guidance
- k) IECEx Technical Guidance Documents (TGDs)
- l) ExTAG decision sheets (DSs)

3.2 ExCB persons interviewed

Name	Position
Jean-Philippe Roisin	General Manager
Andrew Was	EMEA Auditing and Quality Manager
Mick Gower	Technical team Manager
Nick Ludlam	Senior Engineering Specialist
Robert Lovell	Group Manager Auditing and Quality Assurance (based in USA but present for the assessment)
Bill Lawrence	Principal Engineer (based in USA but present for the assessment)

3.3 Associated ExTL(s)

FM Approvals Ltd works with FM Approvals LLC. There is a formal agreement in place (document FM F 023), signed on 15 February 2006. This was reviewed and found to be satisfactory.

3.4 National marks and certificates

There is an FM mark but this is not issued from FM Approvals Ltd in the UK.

Notified body activities are conducted in accordance with the requirements of the ATEX and CPD and use the notified body number 1725.

There is a documented procedure, QP 110, currently issue 1 dated 24/11/2010, which is comprehensive in nature and covers the protection of the certified product and the FM Mark.



The procedure covers a full range of possible actions from a simple communication regarding unintentional misuse / misrepresentation to full legal action when matters cannot be resolved by other means.

FM reported that they have not had to take any action in relation to IECEx, ATEX or CPD activities or in the case of misuse of Notified Body activities.

3.5 Standards accepted

See clause 1.6 of this report

3.6 National differences to IEC standards

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

3.7 Organisation

3.7.1 Names, titles and experience of the senior executives

Name	Title	Experience
JP Roisin	General Manager	➤ 25 Years

3.7.2 Name, title and experience of the quality management representative

Name	Title	Experience
Andrew Was	European Auditing and Quality Manager	37 Years

3.7.3 Name and title of signatories for certification

Name	Title	Comments
Mick Gower	Technical Team Manager	25 Years Certification manager as shown in CM IECEx 001
Andrew Was	EMEA Auditing and Quality Manager	37 Years Nominated deputy as shown in CM IECEx 001
Nick Ludlam	Senior Engineering Specialist	30 Years Nominated deputy as shown in CM IECEx 001

NOTE 1 Technical Decision for F860 defines the above people having deputy roles as shown above.

NOTE 2 In practice for IECEx Andrew Was takes the certification decision and makes the certificate current because of his experience in Ex.

3.7.4 Other employees in ExCB activity

Name	Title	Responsibility and Experience in Ex
Victor Aluko-Oginni	Engineer	5 Years

3.8 Organizational structure

FM is a legal entity within the UK, registered at Companies House in September 2005 under the number 5568547. FM Approvals is a wholly owned subsidiary of FM Approvals LLC which is wholly owned by FM Insurance Company of Rhode Island USA. The documented company structure is shown in document QP 8100 currently issue 2 dated 1/6/2010.



Jean-Philippe Roisin continues in the role of General Manager within FM Approval Ltd

Andrew Was is the European Auditing & Quality Manager. He fulfils the role of Quality Manager within the FM Approvals Ltd organisation. Andrew reports to Robert Lovell, Group Manager, Auditing and Quality Assurance, FM Approvals.

Mick Gower joined FM approximately in March 2011 as the Manager Electrical – Europe; he has in the last year been appointed as the Certification Manager.

The organisation diagrams are included in Appendices A and B.

There are no subsidiary bodies

3.9 Administration

3.9.1 Administrative structure

See Annexes A and B.

3.9.2 Indemnity insurance

FM Approvals Ltd has the following insurance cover in place:-

General liability:-

Policy number 35271650

Dates of validity: 01 August 2012 to 01 August 2013

Issued by: Aon Risk Services northeast Inc., Boston, USA

Insurer As: Great Northern Insurance Co

Product Indemnity cover \$2M

The cover is worldwide

3.10 Resources

There are adequate and competent staff resources supported by appropriate procedures for the operation at FM Approvals Ltd. Some of the staff employed in FM Approvals Ltd also act in an ExTL role for FM Approvals LLC in the USA.

3.11 Committees (such as governing or advisory boards)

Impartiality and integrity is overseen by the Safeguarding Committee. Safeguarding Committee Procedure QP 505, issue 1 dated June 2010 refers to how the committee operates.

The last meeting was held on 16th November 2011 and detailed minutes were produced. The meeting was attended by:-

Gambica Association – Mr J Purdy

EEMUA – Mr A. Pearson

FIA – Mr R Thilthorpe

Along with JP Roisin, E Haynes, (FM Secretary) and M Gower attended as a guest.

There was one position on the committee which was not filled at the time of the last meeting. However, FM advised a new member has now been nominated.



It was noted that whilst the minutes are detailed in nature, their content did not present a picture of the safeguarding committee looking at, investigating or challenging the impartiality of Approvals to any degree. It was recommended that FM should reemphasise the purpose of the committee to its members at the next meeting in November. FM undertook to add this as an agenda item to future meetings.

3.12 Certification operations

3.12.1 National approval/certification methods

See 3.5.

3.12.2 Certification policy

The quality manual includes the quality policy that addresses certification.

3.12.3 Application for certification

F IECEX 97 is an IECEX Scheme overview and addresses the application for certification and the rest of the process through to issuing a certificate.

3.12.4 Certification decision

Procedure CM IECEX 001 defines that the certification decision is taken by the Certification Manager (FME) or a nominated deputy following a review of all the evidence supplied in the IECEX Test Report and the various project and customer files, provided the signatory has taken no part in the evaluation process.

The quality manual makes a statement that under no circumstances shall the decision be delegated outside of FM Approvals.

The AIM system electronically controls authorities and hence the signatures on documents. So this ensures only those authorised can make the certification decision and make a certificate current.

3.12.5 Suspension and cancellation of certificates

There are policies and procedure in place covering the suspension and withdrawal of certificates. Specific arrangements for the withdrawal of IECEX certificates are contained in Procedure F IECEX 097, currently issue 4 dated 1/05/2012.

3.13 Certificates issued

Number of certificates issued under for the preceding four 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	Number of issued certificates				Total
		2009	2010	2011	2012	
IEC 60079-0	General requirements	11	24	22	32	89
IEC 60079-1	Ex d	6	9	6	10	31
IEC 60079-2	Ex p	0	0	0	1	1
IEC 60079-7	Ex e	4	5	1	4	14
IEC 60079-11	EX i	4	12	4	12	32



IEC 60079-15	Ex n	7	9	12	13	41
IEC 60079-18	Ex m	3	3	1	1	8
IEC 60079-26	EPL Ga	0	1	2	2	5
IEC 60079-27	FISCO	2	8	0	8	18
IEC 60079-29-1	Gas detector performance	0	0	0	0	0
IEC 60079-31	Ex t	0	0	0	5	5
IEC 61241-0	Dust general requirements	7	11	2	11	31
IEC 61241-1	Ex tD	6	8	1	7	22
IEC 61241-1-1	DIP	0	0	0	0	0
IEC 61241-11	Ex iD	4	6	2	5	17
IEC 61241-18	Ex mD	0	0	0	0	0
IEC 61241-4	Ex pD	0	0	0	1	1

3.14 National accreditation

FM Approvals are accredited to EN45011-1998 by UKAS. This is regarded as valid by UKAS provided a copy of the accreditation schedule remains in the UKAS website at www.ukas.com. The standards in the scope cover all those in the IECEx scope. A copy of the certificate is shown in Annex C.

3.15 Assessment of manufacturers and issue of QARs and CoCs

When re-assessment of manufacturers is falling due, the assessment is carried out prior to the due date, to provide time for resolving any NCRs that might be raised.

The main procedure for assessment of manufacturers is QP860. A number of QARs were reviewed.

A number of CoCs were also reviewed together with their associated EXTRs.

Details of these reviews are contained in the site assessment report.

3.16 Comments (including issues found during assessment)

There were 5 mandatory findings raised and 6 recommendations. Details of these are in the UKAS improvement action reports (copies with IECEx Secretariat). The following is a summary of the issues raised and then subsequently resolved to the satisfaction of the assessment team:

- Lack of clarity in an EXTR about what it covered leading to missing information from the certificate.
- Lack of clarity for a couple of projects that the reviewer has the relevant competency for the particular technique.
- A missing project review report.
- Lack of clarity that all relevant requires had been covered at an audit of a manufacturer who did not have ISO 9001 certification.

4 Annexes

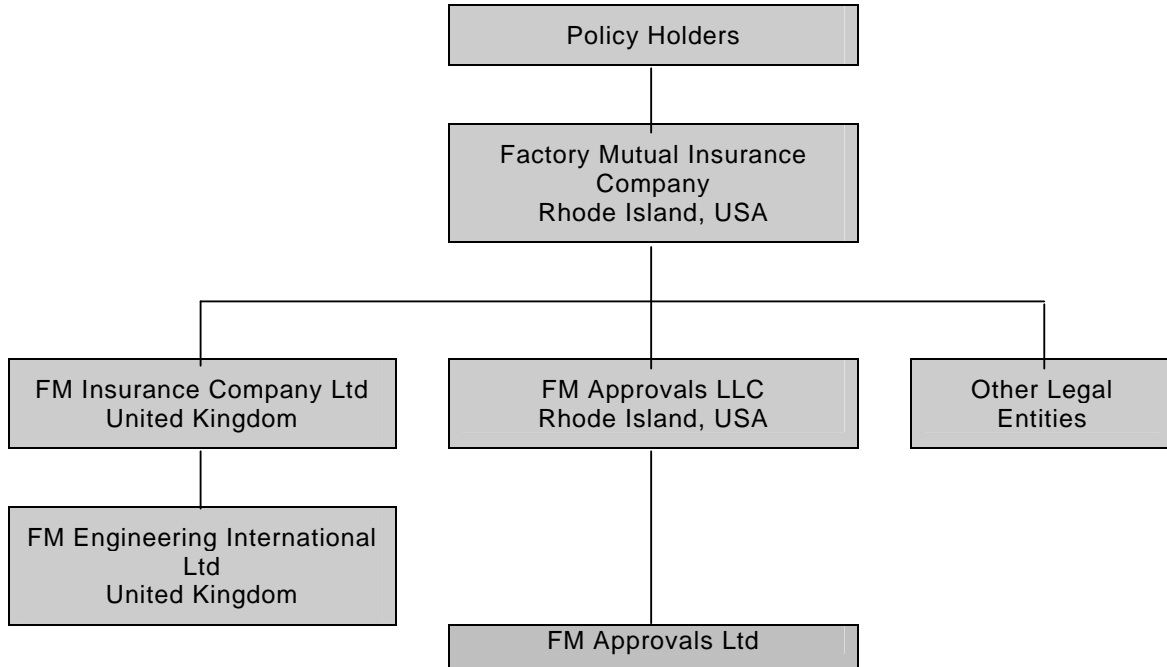
See Contents. (add, modify or delete annexes as necessary). Please note the following instructions for the IEC template:

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.

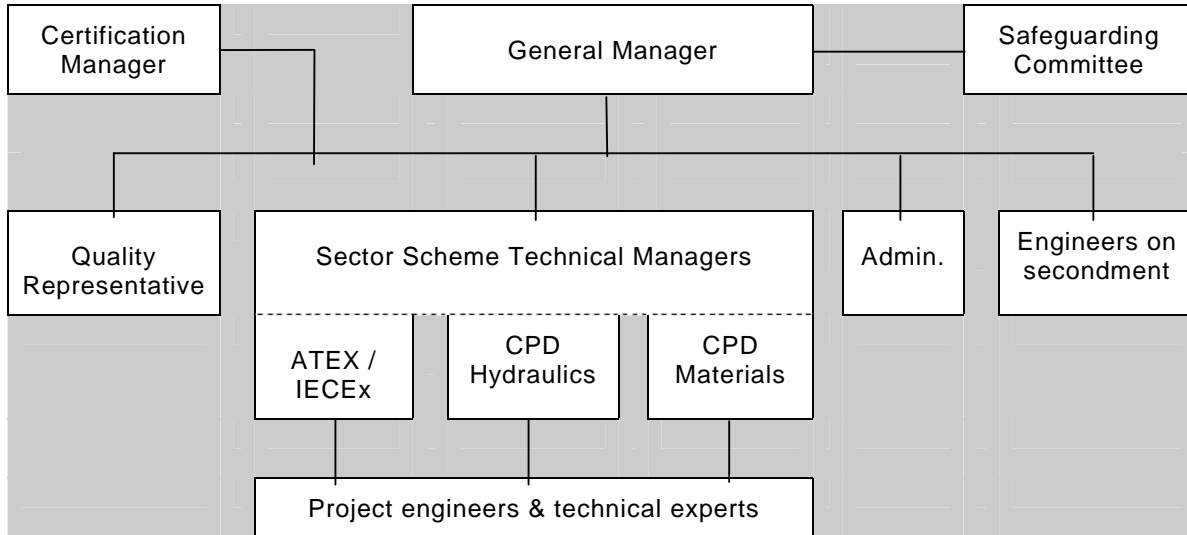
TIP: When typing annex titles, separate the lines of the title by "shift+return"



Annex A Overall Organisation Chart



Annex B Organisation Chart of ExCB in UK





Annex C Accreditation Certificate for Product Certification

United Kingdom Accreditation Service

ACCREDITATION CERTIFICATE



CERTIFICATION BODY
No. 259

FM Approvals Ltd

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.

Accreditation Manager, United Kingdom Accreditation Service

Initial Accreditation date
03 August 2007

This certificate issued on
03 August 2007

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