



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

Report of the Meeting of the following IECEx Working Group

**Working Group WG5 – Quality System requirements of Ex
Manufacturers**

A meeting of Working Group WG1 – **Revision of IECEx Scheme Rules and
Procedures** was held immediately prior to the meeting and is covered by a
separate WG1 Report (ExMC/689/R)

**Wednesday 15 June 2011
At
BSI Headquarters
389 Chiswick High Road
London, WA 4AL
United Kingdom**

ATTENDANCE LIST

| Name | Organisation |
|------------------------------|---|
| Jeff Olson Convener WG 5 | Flowserve Corporation |
| Chris Agius Convener WG 1 | IECEX Secretariat |
| US Kerry McManama | IECEX Chairman |
| AU Jim Munro | Jim Munro International Compliance Pty Ltd |
| AU Ralph Wigg | E-x Solutions International Pty Ltd |
| US Paul Kelly | UL |
| US Tim Duffy | Chairman ExMarkCo Rockwell Automation |
| CH Heinz Berger | IECEX Treasurer, Certiconsult |
| DE Guenter Gabriel | Pepperl and Fuchs |
| DE Gerold Klotz-Engmann | Endress+Hauser |
| DE Gerhard Schwarz | CCH GmbH |

| Name | Organisation |
|------------------------------|----------------------------|
| DK Jasmin Omerovic | UL/DEMKO |
| FR Thierry Houeix | INERIS |
| GB Ron Sinclair | BASEEFA |
| GB David Stubbings | SIRA certification Service |
| Wal Robson | IECEX Secretariat |
| By Invitation Clive Betts | UK National Committee |

The WG5 meeting, which traditionally met at the commencement of the IECEx annual meeting series, is now scheduled to be held in advance of the IECEx Meetings in accordance with Action Item 17 of the 2010 Berlin ExMC meeting and has agreed to continue with this commitment. Members of the WG1 are also included as the quality system requirements are an integral part of the IECEx Certified Equipment Scheme.

1 Opening and Welcome

The Convenor welcomed Members and suggested that now ISO/IEC 80079-34 had been published it was important to establish a timeframe for mandatory use of ISO/IEC 80079-34 and reviewing all IECEx existing documents and forms that will need updating to reflect the new ISO/IEC 80079-34.

2 Agenda and Apologies

The agenda was approved and apologies noted such as -

Ms Katy Holdredge
Mr Evans Massey
Mr Jim Birch
Nick Maalouf
Thorsten Arnhold
Michel Brenon
Michel Lhenry
Theo Pipjker

3 Update on progress of new ISO/IEC 80079-34 and resulting impact on OD 005 Parts 1+2

3.1 Timeframe for mandatory use of ISO/IEC 80079-34

With the Publication of ISO/IEC 80079-34 the most pressing issue for WG 5 was to establish a time line for the implementation of this new standard.

After a discussion on the implementation of ISO/IEC 80079-34, the members agreed that the use of document ISO/IEC 80079-34 could start now. It was agreed that the next audit of a manufacturers site would be conducted using both ISO/IEC 80079-34 and Operation document OD 05 with the subsequent audit being done against the requirements ISO/IEC 80079-34.

Members also agreed that any initial assessment should be carried out using document ISO/IEC 80079-34 only.

WG5 recommends that Operational document OD 05 to be withdrawn 3 years from 1 January 2012.

| |
|---|
| PROPOSAL to ExMC: That ExMC accepts the above recommendations concerning the phasing between OD 005 and new IEC 80079-34 |
|---|

3.2 Updating of all IECEx existing documents and forms that will need updating to reflect the new ISO/IEC 80079-34

Members noted that there were a number of areas where existing documents required to be updated to replace OD 05 with a reference to ISO/IEC 80079-34.

The Convener agreed to prepare the changes.

Members also agreed that a document should be prepared outlining the differences between ISO/IEC 80079-34 and OD 05. An outline of the clauses that have been changed was prepared by the working Group responsible of ISO/IEC 80079-34 in addition a document has been prepared for the ExTag meeting in Split that will detail these changes, Annex A. It is recommended that WG5 wait until the ExTag document is complete and then continue the discussion on what information to place on the IECEx Website for use by ExCB's, Auditors and Manufacturers.

Members also agreed that OD 05 Part 2 should be retained. It is to be renumbered and issued as a new document. This work should be done by December 2011 and send out to the working group for comments.

4 Work on a Draft Operational Document “Guide to IECEx auditing”

The Convener said that to assist with the work of Drafting an Operational Document “Guide to IECEx Auditing”, it would be appreciated if “Guides” now being used by ExCBs for their own internal purposes could be made available. The Convener would like these documents to be sent in by the November so a draft document would be ready of review by mid-2012.

5 Review proposal from UL to add Audit / Surveillance dates to the QAR.

Members, during consideration of a request from Paul Kelly of UL, agreed that in the QAR registration on the on-line website the field “Date of original Issue” should be renamed “Date of issue”. Also the field “Audit date” should be repositioned directly following the field “QAR Free Reference Number”. The field “Valid until” to be repositioned directly following “Details of change”.

Members, in responding to a question “What happens when there is a time delay in resolving issues following an Audit and the QAR expires” noted that there is the option of adding an explanation in the “Comment” field.

The Secretariat was requested to investigate the possibility of listing on the website all CoCs with out of date QARs. The possibility of arranging automatic emails to advise out of date QARs was not accepted.

The Secretariat was also requested to investigate if it is possible to identify on a QAR if a IECEx Conformity Mark has been issued.

6 Feedback on IECEx audit assessments

Members noted that no matters requiring attention were raised.

7 Next Meeting

Members agreed that the next meeting should be held about this time next year in conjunction with the same Groups as this series of meetings (e.g. WG 1, WG 12 and Executive). At this stage it is expected to be held in Paris with the date and venue to be confirmed.



8 Close

The Convener thanked BSI for hosting the meeting. He also thanked the Members for their valuable contribution and declared the meeting closed at 5.p.m.

Convener WG5

Annex A

Significant changes between the IEC/ISO 80079-34 and OD 005-1

IEC/ISO 80079-34 Standard supersedes OD 005-1.

| Significant changes | Clause | Type | | |
|--|----------|-----------------------------|-----------|-------------------------|
| | | Minor and editorial changes | Extension | Major technical changes |
| New reference to ISO and IEC standard | 2 | X | | |
| Adding of new definition | 3 | X | | |
| Adding of a note to explain that the body responsible for the quality assessment may be different from the body who issued the Ex certificate | 4.2.1 g) | X | | |
| Adding of new clause specifying that the manufacturer shall have a documented process to annually check the validity of all document relating to Ex products | 4.2.1 h) | X | | |
| The note regarding the fact the manufacturer has to retain adequate quality records to demonstrate conformity of the product is now a requirement. | 4.2.4 | X | | |
| The responsibilities and authority of the person who reviews the Ex certificate and the technical documentation and who identifies any changes that affect product compliance with the certificate need to be defined. | 5.5.1 g) | X | | |
| All people having an impact on Ex compliance need to receive appropriate training. | 6.2.2 | X | | |
| The Authorised person has to approve any changes that could compromise Ex compliance. | 7.3.7 | X | | |
| Move from 5.4.2 the fact that the manufacturer has to facilitate the audit of the supplier if required by the Notified Body | 7.4.1 f) | X | | |
| Alternative of how to be sure that the suppliers have the current version of the documentation | 7.4.2 d) | | X | |

| Significant changes | Clause | Type | | |
|---|----------|-----------------------------|-----------|-------------------------|
| | | Minor and editorial changes | Extension | Major technical changes |
| Explanation of what is required for material purchasing | 7.4.3 j) | X | | |
| Move from 8.2.3 of the requirement regarding that special validation need to be performed to validate of the processes for production | 7.5.2 | X | | |
| Update of the example of what need to be checked for each type of protection Addition of example for type of protection 't', gas detectors and flame arrestors | Annex A | X | | |

NOTE 1 The technical changes referred to include the significant technical changes from the revised document but this is not an exhaustive list of all modifications from the previous version.

Explanations

A) Definitions

Minor and editorial changes clarification decrease of technical requirements minor technical change editorial corrections Changes in a standard classified as 'Minor and editorial changes' refer to changes regarding the previous standard, which modify requirements in an editorial or a minor technical way. In addition, changes of the wording to clarify technical requirements without any technical change are classified as 'Minor and editorial changes'.

A reduction in level of existing requirement is also classified as 'Minor and editorial changes'.

Extension addition of technical options Changes in a standard classified as 'extension' refers to changes regarding the previous standard, which add new or modify existing technical requirements, in a way that new options are given, but without increasing requirements for equipment that was fully compliant with the previous standard. Therefore these 'extensions' will not have to be considered for products in conformity with the preceding edition.

Major technical changes addition of technical requirements increase of technical requirements Changes in a standard classified as 'Major technical change' refer to changes regarding the previous standard that add new technical requirements or increase the level of existing technical requirements, in a way that a product in conformity with the preceding standard will not always be able to fulfil the



requirements given in the new standard. ‘Major technical changes’ have to be considered for products in conformity with the preceding edition. For every change classified as ‘Major technical change’, additional information is provided in clause B) of the Annex ZY.

NOTE 2 These changes represent current technological knowledge). However, these changes should not normally have an influence on equipment already placed on the market.

B) Information about the background of ‘Major technical changes’

None