INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

EQUIPMENT FOR EXPLOSIVE ATMOSPHERES –
Committee Good Working Practice (GWP)
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EQUIPMENT FOR EXPLOSIVE ATMOSPHERES –

Committee Good Working Practice (GWP)

INTRODUCTION

This TC 31 Good Working Practice details agreed committee working practices for the organisation, communication and the drafting of standards in TC 31 and its subcommittees.

It is intended to promote a common approach:

- To the drafting of standards,
- To the working practices, organisation and communication of chairman, secretaries and convenors of Maintenance Teams (MT), Project Teams (PT) and Working Groups (WG)

Members of TC 31 and its subcommittees should inform the TC 31 Secretary about any ideas they have regarding items that should be included in the good working practice document.

In the following text, the acronym “MT” is intended to cover also the cases of WGs and PTs. Also the term “Standard” used in this document designates also other deliverables such as Technical Reports (TR), Technical Specifications (TS) and PAS (Publicly Available Specification).

The significance of changes between IEC TC 31 GWP Version 11 and IEC TC 31 GWP Version 10: 2017-06 are as listed below:

<table>
<thead>
<tr>
<th>Changes</th>
<th>Clause</th>
<th>Minor and editorial changes</th>
<th>Extension</th>
<th>Major technical changes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
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<td></td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>
### Changes

<table>
<thead>
<tr>
<th>Changes</th>
<th>Clause</th>
<th>Minor and editorial changes</th>
<th>Extension</th>
<th>Major technical changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Addition of principles for &quot;Specific Conditions of Use&quot;</td>
<td>2.4</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Added resources for the editing committee</td>
<td>4.1.1.6</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Direct nomination of experts by IECEx</td>
<td>4.2.3</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Advice on Selection of experts by National Committees</td>
<td>4.2.3</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Posting a draft agenda</td>
<td>4.2.5</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Submission of comments by IECEx and category D liaisons</td>
<td>4.4.4</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Use of the MRS by non-TC 31 experts</td>
<td>5.8</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Change &quot;Collaboration Tool&quot; to &quot;Collaboration Platform&quot;</td>
<td>4.3, 4.5</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Addition of the IECEx executive to the CAG</td>
<td>E.6</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Addition of SC 31M workflow</td>
<td>Annex G</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** The technical changes referred to include the significance of technical changes in the revised GWP document, but they do not form 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

These are changes which modify requirements in an editorial or a minor technical way. They include changes of the wording to clarify technical requirements without any technical change, or a reduction in level of existing requirement.

**Extension**
- addition of technical options

These are changes 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 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
These are changes to technical requirements (addition, increase of the level or removal) made in a way that a product in conformity with the preceding edition will not always be able to fulfil the requirements given in the later edition. These changes have to be considered for products in conformity with the preceding edition. For these changes additional information is provided in clause B) below.

Note: 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’**
1 Drafting in General

When drafting a standard:

1.1 IEC Template

Download the latest IEC Standard Template to your computer from the IEC web site:

http://www.iec.ch/standardsdev/resources/docpreparation/iec_template/template.htm

Remember to apply this latest IEC standard template initially and each time you open a document for the first time, for example, when a document is sent to you as convenor after revision by the secretary or a person nominated by you. In Word, under “Tools”, then “Templates and Add-ins”, the box for "Automatically update document styles" should NOT be checked, as this is to be avoided. When this box is checked, the Word programme tries to update all the styles every time you open the file, which may be a cause of problem when the document is long, and full of tracked changes.

1.2 Foreword

A list of the changes from the previous edition and their significance shall be included in the foreword to standards. These should be written in a meaningful form that makes the change evident. In particular, changes to testing that may involve new test equipment should be clearly shown. Changes to marking requirements are considered major changes.

The changes should be collected throughout the drafting process and by careful comparison of the changes at CDV/FDIS stage with the published edition. See Annex A for an example of how to show the significance of changes.

1.3 Indexing

This defaults on the template to two levels. Formatting of the document and heading of clauses should be done in a way that then provides meaningful information in the index (i.e. all critical tests and no blank headings). In exceptional cases it may be possible to index to more levels.

1.4 Cross references

Hyperlinks are used in documents for cross-referencing to other clauses and sub-clauses. This ensures the reference clause numbers are automatically updated if the original clause number changes. It also makes navigating the documents easier. IEC CO shall be asked to keep hyperlinks when documents are published in pdf to improve useability. Advice on how to insert cross-references is given at http://www.iec.ch/standardsdev/resources/draftingpublications/writing_editing/tips_recommendations_we/cross References.htm

1.5 Scope of standards

The Scope of standards containing equipment design requirements should contain the following statement:

This standard supplements and modifies the general requirements of IEC 60079-0, except as indicated in Table 1. Where a requirement of this standard conflicts with a requirement of IEC 60079-0, the requirement of this standard takes precedence.
The text in italics and Table 1 are only included when a detailed list of “exclusions” is required, such as is provided in Examples 1 and 2 below. This table shall consider both the latest published edition of IEC 60079-0 and the preceding edition. For each clause or sub-clause the application should be identified as “applies”, “excluded”, “excluded except when...” or “modified”. If clause does not exist in the latest published or preceding edition of IEC 60079-0, the “clause” should be shown as “NR”.

Where the Table is incorporated into the scope of a standard, this table shall include all of the clause or sub-clause numbers taken from the General Requirements standard as applicable. In Example 1, all of the requirements for Clause 15, “Connection facilities for earthing or bonding conductors” are addressed in the same manner, and that table entry would be only the main clause number as shown and no further breakdown of the clause is necessary.

**Example 1**

<table>
<thead>
<tr>
<th>Clause of IEC 60079-0</th>
<th>IEC 60079-0 application to IEC 60079-15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ed 5.0 (2007)</td>
<td>Ed 6.0 (2011)</td>
</tr>
<tr>
<td>Clause / Sub-Clause Title (normative)</td>
<td>Protected sparking nC</td>
</tr>
<tr>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>Connection facilities for earthing and bonding conductors</td>
<td>Applies</td>
</tr>
</tbody>
</table>

Applies – This requirement of IEC 60079-0 is applied without change.

Excluded – This requirement of IEC 60079-0 does not apply.

Excluded except when...

Modified – This requirement of IEC 60079-0 is modified as detailed in this standard.

NOTE The applicable requirements of IEC 60079-0 are identified by the Clause title which is normative. This document was written against the specific requirements of IEC 60079-0 Ed 6.0. The clause numbers for the 6th and previous edition are shown for information only. This is to enable the General Requirements IEC 60079-0 Ed 5.0 to be used where necessary with this part of IEC 60079. Where there were no requirements for the 5th edition but there are for the 6th edition (indicated by NR against the 5th edition only), or where is a conflict between requirements, the 6th edition requirements should be considered.

In Example 2: The individual sub-clauses are not addressed in the same manner. For clarity, the main clause number and title should be included since this provides an indication of the subject as the first subclause of a new clause in 60079-0 is usually ‘General’ which does not provide any indication of the subject. In this situation, the row for the main clause is shaded grey e.g. 25%. The breakdown of sub-clauses should be taken as far as necessary to identify the specific requirements. Other special conditions may also occur;

i. Clause 12 below for Ed 7.0 which is for future use which should be indicated as ‘Excluded’.

ii. In certain conditions the clause can be either ‘excluded’ or ‘applies’. An example of how to address this is also shown below
## Example 2

### Table 1 – Applicability of specific clauses of IEC 60079-0

<table>
<thead>
<tr>
<th>Clause or subclause of IEC 60079-0</th>
<th>IEC 60079-0 clause application to IEC 60079-11</th>
<th>Intrinsically safe apparatus</th>
<th>Associated apparatus</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Group I and Group II</td>
<td>Group II</td>
<td>Group III</td>
</tr>
<tr>
<td>Ed. 6.0 (2011) (informative)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ed. 7.0 (informative)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clause / Subclause title (normative)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Equipment grouping</td>
<td>Applies</td>
<td>Applies</td>
</tr>
<tr>
<td>4.1</td>
<td>Group I</td>
<td>Applies</td>
<td>Excluded</td>
</tr>
<tr>
<td>4.2</td>
<td>Group II</td>
<td>Applies</td>
<td>Excluded</td>
</tr>
<tr>
<td>4.3</td>
<td>Group III</td>
<td>Excluded</td>
<td>Applies</td>
</tr>
<tr>
<td>4.4</td>
<td>Equipment for a particular explosive atmosphere</td>
<td>Applies</td>
<td>Applies</td>
</tr>
<tr>
<td>5</td>
<td>Temperatures</td>
<td>Applies</td>
<td>Applies</td>
</tr>
<tr>
<td>5.3</td>
<td>Maximum surface temperature</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.3.1</td>
<td>Determination of maximum surface temperature</td>
<td>Applies</td>
<td>Applies</td>
</tr>
<tr>
<td>5.3.2</td>
<td>Limitation of maximum surface temperature</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.3.2.1</td>
<td>Group I electrical equipment</td>
<td>Applies</td>
<td>Excluded</td>
</tr>
<tr>
<td>5.3.2.2</td>
<td>Group II electrical equipment</td>
<td>Applies</td>
<td>Excluded</td>
</tr>
<tr>
<td>5.3.2.3</td>
<td>Group III electrical equipment</td>
<td>Excluded</td>
<td>Applies</td>
</tr>
<tr>
<td>5.3.3</td>
<td>Small component temperature for Group I or Group II electrical equipment</td>
<td>Applies</td>
<td>Excluded</td>
</tr>
<tr>
<td>NR</td>
<td>(reserved for future use)</td>
<td>Excluded</td>
<td>Excluded</td>
</tr>
<tr>
<td>21</td>
<td>Supplementary requirements for luminaires</td>
<td>Excluded</td>
<td>Excluded</td>
</tr>
<tr>
<td>22</td>
<td>Supplementary requirements for caplights and handlights</td>
<td>Excluded</td>
<td>Excluded</td>
</tr>
<tr>
<td>22.1</td>
<td>Group I caplights</td>
<td>Modified</td>
<td>Excluded</td>
</tr>
<tr>
<td>22.2</td>
<td>Group II and III caplights and handlights</td>
<td>Modified</td>
<td>Modified</td>
</tr>
</tbody>
</table>

1 Under preparation
### Clause or subclause of IEC 60079-0 | IEC 60079-0 clause application to IEC 60079-11
---|---
Ed. 6.0 (2011) (informative) | Ed. 7.0 (20xx) (informative) | Clause / Subclause title (normative) | Intrinsically safe apparatus | Associated apparatus

| | Group I and Group II | Group III |

### 1.6 Normative references of standards

Insert the standardized version of the normative standard reference clause from the IEC Template by clicking on the "Insert" menu, selecting the menu choice “AutoText”, and then choosing the introduction to this clause from the list.

References to other standards should wherever possible, be of a general nature, so that reference to the standard can be an undated reference. For example, “the cement shall be subjected to the thermal endurance to heat and thermal endurance to cold tests of IEC 60079-0”. If a specific clause number needs to be identified, the normative reference to the standard needs to be a dated reference, since the reader may have to reference an earlier version of the standard than the current issue to get the information on which the reference was based. For standards other than the "type of protection" sub-parts of IEC 60079-0, where including a specific clause reference to IEC 60079-0 in the standard is necessary to clarify issues for the reader, it should be included.

When referring to IEC 60079-0 for the marking associated with “Specific Conditions of Use” (Commonly called "<\"X\" Conditions"). the sub-parts have traditionally used the text:

\[\text{……shall be marked with the symbol "X" in accordance with 29.2 i) of IEC 60079-0 and the specific conditions for use shall detail the……}\]

Because this text includes a reference to a specific sub-clause, the IEC Directives require that the reference to IEC 60079-0 become a “dated” reference in Clause 2. This creates application problems as the various sub-parts may refer to a prior edition of IEC 60079-0 without a true technical need to do so. To allow the latest edition of IEC 60079-0 to be used with the sub-part, the following text is preferred for those requirements where such a reference is necessary:
......the certificate number shall include the "X" suffix in accordance with the marking requirements of IEC 60079-0 and the Specific Conditions of Use listed on the certificate shall detail the......

For the “type of protection” sub-parts listed in 60079-0, references to specific requirements of IEC 60079-0 should not be used, as these standards are always to be applied in conjunction with 60079-0, and only the requirements that supplement or modify those given in IEC 60079-0, should be included.

1.7 Terms and Definitions of standards

1.7.1 IEC Directives

In all cases when dealing with terms and definitions Clause 16 of the ISO/IEC Directives, Part 2 Seventh edition, 2016, MUST be consulted.

1.7.2 Introductory paragraph

A clause needs to go into all standards with respect to definitions referring to IEC 60079-0 and the International Electrotechnical Vocabulary (IEV). As 60079-0 is the definitive document and should be the most up to date for the definitions, the reference to the IEV should be in a note.

The introductory paragraph of Clause 3 should be:

"For the purposes of this document, the terms and definitions given in IEC 60079-0 and the following apply."

NOTE Additional definitions applicable to explosive atmospheres can be found in Chapter 426 of the International Electrotechnical Vocabulary (IEV) IEC 60050 (426). The IEV is available on-line at http://www.electropedia.org/

References to other standards can be added to the introductory paragraph if required.

1.7.3 Definitions

No variation in definitions from 60079-0 is permitted. In exceptional cases, a definition may be changed to meet a particular need but in that case a different term must be used to that of original definition. The use of notes to clarify a definition for a particular standard, rather than changing a definition should be encouraged.

1.7.4 Changes to definitions

Any change to an existing definition should be resisted and ONLY be proposed on the basis of being an essential change for technical correction.

The responsibility for any change to a definition resides with the MT in control of the standard that has developed the first requirement for the definition. The MT is to develop the proposed change and make a submission to TC 31 WG22 to verify the impact for the IEV.

Before agreement can be reached on introducing a change to a definition an impact study must be carried out by the proposers together with WG22 to determine what effect the change will have within every standard it is used and whether or not the change must be introduced coincidental or on a publication of the next edition of each standard.
1.7.5 Introduction of a new definition

When a MT perceives a need to introduce a new definition, the current editions of TC 31 standards and the IEV should be consulted to determine if a suitable definition already exists. If a suitable definition exists, it should be used. Any new definition must be communicated to WG22 for inclusion in the next edition of the IEV.

1.7.6 Sub-part definitions

Whether or not definitions are included in the sub-parts of IEC 60079 is determined by the following:

- Only definitions not used in 60079-0 (and also those definitions not included in a base standard, if the standard being drafted is a sub-part of a base standard, and the base standard is a sub-part of 60079-0).
- If an unaltered 60079-0 term is used in the sub-part, then the definition should not be included in the sub-part definitions list.
- Definitions used in 60079-0 shall not be altered unless absolutely necessary.
- If a 60079-0 term is fundamentally altered, then the altered definition should be included, and given a different name. Definitions that differ only editorially from those in 60079-0 should not be included.
- If a 60079-0 term is amended only by a NOTE, then the 60079-0 definition is referenced and a NOTE added below.

Wherever possible, definitions appearing in different sub-parts should be harmonized with the definition that appears in 60079-0, and not included in the sub-part definitions list.

1.7.7 Common definitions

Definitions that appear in two or more TC 31 documents should be sent to TC 31 WG22 for inclusion in the next edition of 60079-0 and 60050(426).

1.7.8 Standard Clauses

To ensure consistency of approach, MTs are not to change standard clauses specified in this document.

This is to minimise ‘experts’ being distracted from dealing with technical issues in meetings and to avoid lack of consistency in standards. If an MT thinks it has found an issue with a standard clause, this should be communicated to the TC 31 Secretary for consideration.

1.7.9 Common Phrases

For consistency, all parts of the TC 31 series of standards should use the phrases “explosive atmosphere(s)”, “explosive gas atmosphere(s)”, or “explosive dust atmosphere(s)”, as applicable and no other variations.

Note: See Annex B for information concerning titles for the IEC 60079 series.

There are two types of “group” within the TC 31 standards, the “equipment group” for the atmosphere and the “material group” for the insulating material. The use of the general term “group” should be avoided as it can introduce confusion.

The following terms are used in many TC 31 standards: "Type of Protection" and "Level of Protection". "Type of Protection" is used to define the concept, e.g. Type of
Protection Intrinsic Safety "i". The Level of Protection is used when a Type of Protection is further subdivided e.g. "ia", "ib", "ic".

Types of Protection and Levels of Protection are enclosed in double quotes as shown above.

1.7.10 Capitalization

The terms “Group” and “Zone” are always capitalized if the term is referring to a specific “Group” or “Zone", e.g. “Group IIIC” or “Zone 2”. The term is not capitalized if it is referring to the more general designation, e.g. “for the specific zone of use”.

The terms "Ex Equipment", "Ex Component", "Blanking Element", "Cable Gland", "Specific Conditions of Use" “Type of Protection", "Level of Protection", "Equipment Protection Level" and "Schedule of Limitations" should be used with capitals as shown.

1.7.11 Graphics and figures

Any graphics or figures the use of black and white is sufficient. Colours in figures, tables or text shall only be used where they facilitate the use of the document. They have to serve a purpose in helping the user to easily understand and interpret the data and explanations given. The use of colour for purely aesthetic purposes is not permitted. Where colour is present in a document, the number of colours used shall be kept to a minimum; they shall be chosen so as to be clearly distinguishable from each other. Furthermore, cross-hatching to produce lighter effects should be avoided – solid colours are preferred. In choosing the colours, due consideration shall be given to the fact that users of IEC documents print them using varying qualities and types of printers.

RGB colour scheme values (primary and secondary colours) as used in the IEC Graphic Charter:

See http://www.iec.ch/standardsdev/resources/draftingpublications/graphics_figures/

2 Marking

2.1 WG22 assistance for MTs

TC 31 WG22 is available to assist the other Maintenance Teams (MTs) in achieving TC 31’s desired consistency in marking throughout the series of TC 31 documents. Under this procedure, Maintenance Teams should forward plan marking clauses in their documents to WG22 for review and comment. WG22 will review these by correspondence in a timely manner and expects to be able to respond in four weeks or less. If no comments are made by WG22 within the established time frame, the affected MT can proceed with the proposed marking.

2.2 New WARNING and CAUTION markings

For new WARNING and CAUTION markings, MTs should consider the use of those already in 60079-0 and in the cases where new text is required, should follow the format established in 60079-0. Any new WARNING & CAUTION markings shall be developed as follows:

- Always include a “signal” word such as "WARNING" followed by an "en" dash and then the specific warning text. The “en” dash can be inserted from the symbol library in Microsoft using the insert toolbar.
2.3 Location of marking requirements

ALL marking requirements in a product standard are to be located in the “Marking” clause and not scattered throughout the document. It is recommended that a table format, like Table 16 in 60079-0 Edition 6 (see part of this table below), be used for the collection of warning markings and references to them included in the text. References to the table must also be included in the text that calls out the marking requirement.

**Table 2 – Text of warning markings**

<table>
<thead>
<tr>
<th>Reference</th>
<th>WARNING Marking</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) 6.3</td>
<td>WARNING – AFTER DE-ENERGIZING, DELAY ( \gamma ) MINUTES BEFORE OPENING (( \gamma ) being the value in minutes of the delay required)</td>
</tr>
<tr>
<td>b) 6.3, 23.12</td>
<td>WARNING – DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT</td>
</tr>
</tbody>
</table>

Note: Extract from Table 16 in 60079-0 Edition 6

2.4 “X” marking

The specification for use of the “X” marking should be carefully considered such that it does not dilute the value of the “X” marking as a means of imparting critical information necessary for installation or maintenance. The description of the "X" marking in the standard needs to include what the "specific condition of use" is that needs to be provided for safe installation and maintenance. Many of the sub-parts currently do not specify exactly what "specific condition of use" needs to be conveyed to the user through the “X” marking. (See also 1.6)

There are some principles that should be considered by convenors and their groups in relation to "Specific Conditions of Use" when standards are being developed or revised, as follows:

- Where a standard indicates that a lesser requirement might be accepted under Specific Conditions of Use, it should be possible to demonstrate that the application of those conditions will provide the required Level of Protection

- Where Specific Conditions of Use are used to inform the user of additional actions that may be needed to supplement the requirements of a standard in order to achieve the required Level of Protection, it is preferred that some 'guidance' be provided
  - This 'guidance' may set actual limits for the lower acceptance (for example the low impact requirements of IEC 60079-0)
  - Alternatively, the guidance may provide assistance in the wording that would be appropriate for a requirement to be covered by Specific Conditions of Use (for example for electrostatic charge requirements)

3 Instructions

The instructions for "Installation and Maintenance" and the instructions for "Use" were considered to present separate and unique situations as follows. 60079-0 follows this logic and the various sub-parts should align with this:
- Installation and Maintenance Instructions:
  Installation and Maintenance instructions specific to the explosion protection may be shown as a Certificate “X” Condition, BUT in all cases shall appear in the instructions. As an alternative to the “X” Condition, the instructions or a specific reference to them may be located on the label AND in all cases shall appear in the instructions.

- Use Instructions:
  Use instructions specific to the explosion protection such as “WARNING - Do not open in explosive atmosphere” shall be marked on the product AND shall appear in the instructions.

4 Convenors

4.1 Document Control Practices for Working Group Project Team and Maintenance Team Convenors

4.1.1 Drafting

4.1.1.1 Drafting General Requirements

The initial electronic text to be used in a revision or amendment shall be the IEC published text of the existing publication, not the FDIS text from the previous edition. This is the actual text to be altered, which will avoid unnecessary editing. This text is to be obtained from the secretary.

Have a copy or access to the ISO/IEC Directives handy for reference:

http://www.iec.ch/members_experts/refdocs/

Only the convenor, or a person nominated by him and/or the secretary shall revise this text electronically to avoid corruption of the template and to maintain control of the changes and avoid copyright issues.

The document modification process has been found to be most effective when during comment resolution both the revised document and “Observations of the MT” column in the compilation of comments are developed simultaneously and “on-screen” during the Maintenance Team meeting.

4.1.1.2 CD Preparation

The MT shall prepare the CD based on inputs from comments on a DC, if circulated, and the inputs of its experts. In TC 31 and SC 31G the draft CD can be submitted to the secretary who will arrange for a critical review by the BSI editors. Eight weeks should be allowed for this process. This process can occur in parallel with the official IEC comment process on the CD, but there can be a value in completing the critical review prior to issuing the CD, as it should reduce the number of editorial comments resulting from the IEC comment process. The convenor shall review each individual change and accept or reject changes as necessary, but need not provide a justification for the action. For contentious issues, the convenor may wish to involve the MT in the resolution.

4.1.1.3 CDV Preparation

After addressing the NC comments on the CD, the convenor should send the document to TC/SC secretary who will arrange for review by the TC/SC Editing
Committee (see 4.1.1.6). The convenor should consider these comments prior to preparing the final text that will be sent to the secretary for circulation as a CDV.

It helps the progress of the document if a “compare” document which shows the tracked changes is also sent showing the changes to the CDV, from the previous edition, as it helps to correct the French translation.

4.1.1.4 FDIS preparation

When addressing the NC comments on the CDV to prepare the FDIS, the convenor shall use the IEC Central Office "short edit" version of the CDV if available, from the secretary. The “short edit” version has been reviewed by the editors at the IEC Central Office. Proposed changes and questions are inserted into the document in "tracking" mode by the editors. The convenor or the MT shall review each individual change and accept or reject changes as necessary.

There needs to be a critical final look at this stage for mistakes. After addressing the NC comments on the CDV, the convenor shall send the document to the secretary who will arrange for review by the TC/SC Editing Committee (see 4.1.1.6). The comments of the Editing Committee are forwarded to the convenor for action. The convenor reviews and acts on the comments as necessary and forwards the revised document to the secretary for final processing.

It helps the progress of the document if a “compare” document which shows the tracked changes is also sent to the secretary showing the changes to the FDIS, from the CDV, as it helps to correct the French translation.

4.1.1.5 DTS preparation

The approval vote for a draft Technical Specification is the equivalent of an FDIS. The convenor shall send the document to the secretary who will arrange for review by the TC/SC Editing Committee who will have a maximum of two weeks for their review. The comments of the Editing Committee are forwarded to the convenor for action. The convenor reviews and acts on the comments as necessary and forwards the revised document to the secretary for final processing.

4.1.1.6 Editing committee

The editing committee is responsible for editing draft documents (Standards, Technical Specifications, Technical reports, Amendments and Interpretation Sheets) to ensure their conformity to the ISO/IEC Directives, Part 2, the TC31 Good Working Practice document and correlation to other 60079-X or 80079-X standards.

In particular the editing committee should use as a resource the editing checklist in Annex A of the ISO/IEC directives Part 2. In addition the recommendations for “Specific Conditions of Use” in clause 2.4 shall be considered

The constitution of the editing committee is decided by the Technical Committee or Subcommittee and confirmed during a plenary meeting. As a minimum the membership includes the Chairman, Vice Chairman and Secretary (of the TC or SC), and the Project Leader for the document in question. The Editing Committee will have a maximum of two weeks for any review.

4.1.2 Comment Resolution

Comments received from National Committees and groups within TC 31 such as SCs/MTs/PTs/WGs/JWGs/HWGs on CD and CDV documents are sent to the MT convenor by the Secretary of TC 31 or of the applicable Sub-Committee. The
comments are sorted according to Clause number by the Secretary of TC 31 or the applicable Sub-Committee and sent to the MT for their review and action. The first column of the comment form should be split into two columns with the first new column being a comment number and the second column identifying the National Committee. This “numbering” of comments has been found to aid the MT in their processing of comments.

TC/SC 31 convenors are delegated by the secretary to be responsible for ensuring the completion of the “Observations of the Secretariat” column of the compilation of comments (CC and RVC Annex) prior to returning them to the secretary for review and publication. However, such comments must have been reviewed and discussed by the MT, either in face-to-face meetings or by correspondence, and represent the consensus position of the MT.

For consistency, the dispositions of comments shall be as follows (acronyms shall not be used):

a) Accepted.
The comment was acceptable as presented.

b) Not Accepted
This disposition indicates that the comment will not be incorporated into the document. All rejections shall have the justification for rejection, whether technical or editorial and documented as part of this disposition.

c) Accepted in Part
This disposition indicates that some parts of the comment will be accepted and incorporated into the document. An explanation of how the accepted part is to be incorporated into the document shall be given. The parts that have not been accepted shall have the justification for doing so, whether technical or editorial, documented as part of this disposition.

d) Accepted in Principle
This disposition indicates that the principle of the comment was accepted, but was incorporated into the document in a different manner than that suggested by the commenter. Explanation of how this is to be incorporated into the document shall be included along with the justification for the decision.

e) Held for Next Edition
This disposition is to be used for major technical comments received for the CDV that has had a positive vote but have merit for consideration, but must be held until the next maintenance cycle of the document if the vote was in acceptance of the CDV.

f) Noted
This is used where there is no action required on the comment.

In cases c), d) and e), the justification provided should clearly convey the specific reasons why the comment was not acceptable. This will allow the commenter the opportunity to provide additional information and justification at the next stage of review for those cases where, perhaps because of language barriers or interpretation difficulties, the commenter believes that the Maintenance Team did not fully understand the proposal.

To avoid repeating an action in subsequent or related comments, a reference to a comment number may be used, e.g. “Accepted in part. See comment 12”

The convenor shall then send the completed CC or /RVC Annex document to the secretary who will send it to the IEC CO for distribution to the National Committees.
Resolution of FDIS comments are the responsibility of IEC CO and since changes can be corrections of typographical errors only, the entire MT is generally not involved in reviewing and resolving them. This is also the case if at CDV stage, with no negative votes, the chairman, secretary and convenor agree to publish without a FDIS stage. Major technical comments introduced at the CDV stage may be held over for consideration at the next revision. Any technical comments submitted at the FDIS stage are not to be considered until the next revision.

4.2 MT Meetings and Agendas

4.2.1 General

Conduct of meetings shall observe antitrust laws. Agendas shall be provided in advance, and care taken for any other items raised to assure that no issues related to pricing, competitive strategy, market share and so on are discussed. It is the responsibility of our participants to insure that only non-confidential technical details required for the production of our standards are discussed.

4.2.2 Role of the convenor

Once set up, the MT is under the responsibility of the convenor who is expected to:
- manage the development of the project;
- organize and chair the working group meetings;
- report to the TC/SC secretary and chairman on the progress/delays;
- monitor attendance and participation of the experts;
- report to the TC/SC secretary and chairman on any significant problem affecting the project;
- follow through the project until circulation of the FDIS.

4.2.3 Role of the experts

4.2.3.1 General

Individually appointed experts are brought together to deal with the specific task allocated to the MT. IECEx are able to nominate experts to IEC TC 31 groups directly.

The initial responsibility for the work within any MT dealing with the specific subject matter of the TC 31 HWG is with the experts of the TC 31 HWG involved with that MT. The function of those experts will involve reporting activities to the TC 31 HWG on a regular basis and should identify any clauses/comments/actions that require further TC 31 HWG consideration.

The experts act in a personal capacity and not as the official representative of the organization by which they were appointed. However, it is recommended that they keep close contact with their organization (National Committee or other International Organization in liaison) in order to inform them about the progress of the work.

4.2.3.2 Selection of experts

National Committees are advised to note that when considering applicants for a position as an Appointed Expert on a particular Maintenance Team or Working Group, TC31 asks them to give consideration to the following:

- Experts should have five years or more of experience in the subject as technical expertise in the subject of the Maintenance Team or Working Group is critical
- Experts should be involved in national standardization for the subject
- Experts should represent personal knowledge, not company or national position
Experts should have strong communication skills
Experts should be able to travel and participate in meetings
Experts are expected to actively participate in the development of national comments
Experts should be appointed at the beginning of a maintenance cycle and are expected to continue through at least one complete maintenance cycle.
No more than 1/4 of the total experts should be from the same country, unless a specific need for such additional participation is demonstrated
Multiple experts from the same company division, product line, or service line should be avoided except when transitioning from one expert to another, such as due to an impending retirement
Balance between interest groups such as those shown below is desirable, but may not be practical

- **Producer** - Individuals who are involved in the production, manufacture, or distribution of the type of product or system that is the topic of the Maintenance Team or Working Group. This includes individuals involved in the design, engineering support, manufacturing, testing, and/or marketing of the type of product or system; or who are employed by or represent a producer, manufacturer, or distribution of the type of product or system.

- **User** - Individuals who are involved in using the type of product or system that is the topic of the Maintenance Team or Working Group, but who are not involved with the production, manufacture or distribution of that type of product or system.

- **Testing / Certification** - Individuals who represent organizations that provide testing, assessment and/or certification of the type of product or system that is the topic of the Maintenance Team or Working Group.

- **Regulatory / Inspection** - Individuals who represent governmental entities having regulatory or inspection interest in or influence over the type of product or system that is the topic of the Maintenance Team or Working Group.

- **Special Expert** - Individuals who have expertise in an aspect of the type of product or system that are not covered by another interest group.

### 4.2.4 MT Meetings

#### 4.2.4.1 Calling Meetings

The convenor should consult the Meeting Schedule that can be accessed from the TC 31 Dashboard or the IECEx web site before calling a meeting. This is to ensure that it does not take place at the same time as another meeting that would conflict with the experts being able to attend. It is also to optimize the travelling time and costs of the experts, for example by calling meetings in conjunction with other meetings at the same location and time frame that the experts will be attending. The meeting schedule location in the IECEx web site is:

http://www.iecex.com/information/meeting-schedule/ or

Typically, there are meetings of TC 31 groups twice a year:

- March, in conjunction with meeting of the TC 31 Chairman's Advisory Group
- October, in conjunction with the TC 31 Plenary Meeting

These meetings should be referred to by their respective months (March and October for example) rather than seasonally (Spring and Autumn/Fall) to avoid confusion between experts from the northern and southern hemispheres.
4.2.4.2 Length of Meetings

When deciding how many days may be necessary for resolution of comments, experience has shown that 70 comments is the average that can be covered in one day.

Where there are a very large number of comments to be discussed, it may not be practical to schedule a meeting with the time to consider each comment in detail. In such a case to improve efficiency, the TC/SC secretary or MT convenor may include suggestions for the editorial comments in the Comment Form for confirmation by the meeting. Note that only editorial comments should be addressed in this manner. Technical comments should be carefully considered with the MT.

4.2.4.3 Webconferences

Advice on holding webconferences is given in Annex H. TC 31 discourages teleconferencing into Working Group meetings for an entire, day-long session. Calling in to present, or to listen to, a specific report or portion is easier to manage. Meetings held solely by teleconference should have a very focused and limited agenda and be of short duration.

4.2.5 MT Meeting Agendas

The convenor shall post a draft agenda on the MT’s collaboration platform at least two months before the meeting date.

Annex C gives an example of a MT/PT/WG Draft Agenda which can be copied and modified to suit the particular meeting. It is also possible to download the meeting template from the IEC website.

4.2.6 MT Organization

Convenors and MTs can devise a way of managing its appointed experts. If, for example, a MT is becoming too large, it can be internally organized to be more manageable. The MT could, for example, have small specialist Task Groups (TG) of experts having a particular knowledge that could tackle those issues delegated to the TG and report back to the MT via a single expert input, thus saving time and making decisions easier to reach.

For large MTs a deputy/assistant to the convenor should be appointed.

4.2.7 MT Participation

If it becomes necessary to manage the membership of MTs, Clause 8.2 of the convenors’ kit ‘Guidance for Project Leaders and for Convenors of Working Groups, Maintenance Teams and Project Teams’ provides some guidelines. In addition to the recommendation, where MTs are large enough, it may be decided, taken in conjunction with the TC/SC Secretary and the relevant National Committee, to remove any non participating experts from the WG/MT.

Convenors should review the participation of the MT experts at regular intervals and in particular at the end of each maintenance cycle. The convenor should correspond to identified non participating expert members initially by email using the Standard text (see Annex D) and if the result indicates that the member’s response is unsatisfactory then this should be communicated to the secretary for action. In addition a secretary’s note will be added to any document that refers to expert participation. An example is as follows:
Secretary’s Note: National Committees are asked to review the participation of their experts on MT60079-XX. TC 31 periodically review experts for active participation and attendance. National Committees will be asked to remove or replace non active experts.

Observers wishing to attend a meeting must have prior approval from the convenor. In some cases the number of observers may be restricted due to meeting room constraints. The convenor decides the level of participation of observers at the meeting.

### 4.2.8 MT internal documents

To keep track of internal documents and to ensure the latest version is used, the files are to be identified and listed in a document continuously updated by the convenor. The files are to be named as shown in the following example: 31-60079-15-Ed4-CD-draft01-2007-09-25. The first four criteria of this format are used by the IEC Editor when preparing the short edited version for preparation of the FDIS. Using this will keep the naming convention constant and logical throughout the drafting process.

![Cartoon](image.png)  

2 This cartoon is included with the kind agreement of the artist, Scott Adams, who apparently understands how we work in TC 31

### 4.2.9 Minutes

Minutes shall be made at each meeting and sent to MT members and the TC/SC officers within one month.

### 4.2.10 Reporting to Plenary and CAG

The PT/MT/WG should prepare a short report for each TC plenary or CAG meeting. This should be submitted to the secretary in Word and:

- highlight any issues for discussion by the Plenary or CAG;
- include the status of the work items;
- list meetings since the last plenary or CAG;
- give the date and location of the next planned meeting if available;
- raise anything else which may be of interest to other PT/MT/WGs.

Please see Annex E for the constitution of the TC 31 Chairman’s Advisory Group.

### 4.3 Collaboration Platform

The Collaboration Platform provides a good way to share information among members of MTs.
Your current username and password are required to access this service and if you do not have a login, you should contact your National Committee to obtain one. It is possible that some company servers with make access to these tools difficult.

To access use:

4.4 https://collaborate.iec.ch/TC 31 Horizontal Working Groups [TC 31 HWG]

4.4.1 Liaisons

It is recommended that the TC 31 HWG gives consideration as to the nature of the work being undertaken by the relevant MT. It is recommended that at least one expert from the TC 31 HWG is an expert within that MT.

Where TC 31 HWGs or other PT/MT/WGs provide technical details for inclusion in standards not under their control, it is essential that they are consulted when any changes in these technical details are considered.

No formal co-operation or liaison with the sub committees of TC 31 is envisaged. However, the sub-committees may need to be advised of the co-operation and representation of the TC 31 HWG with the MTs under their control.

Liaisons with groups outside TC 31 must be referred to TC 31 or the relevant subcommittee for approval and possible subsequent action.

4.4.2 Assigning work for TC 31 HWG experts

The assignment of work of the TC 31 HWG experts to other MTs should be considered on the basis of:

- a willing volunteer with expertise in that particular area
- each member to be involved in at least one other relevant MT

4.4.3 New Work Allocation

The CAG will refer any accepted new work proposal containing aspects related to the work of the TC 31 HWG for a recommendation. The TC 31 HWG is to review the proposal and forward a recommendation to the CAG on the best way to proceed.

Where the new proposal recommends the assignment of the work to a MT, then the TC 31 HWG should create a co-operation with that MT. This should be reviewed on a case by case basis to determine if additional resources are to be temporarily assigned during the development phase.

4.4.4 Review of Documents

A TC 31 HWG should consider all TC 31 draft documents containing requirements affecting its scope of work and where necessary prepare comments for submission to the secretary. These comments are to be included with and have equal standing to National Committee comments. IECEx and category D liaisons may submit comments on draft IEC documents by submitting them to the relevant IEC committee secretary by the due date on the standard comment form. It is recommended that the IEC working group leader be copied on the comments.

4.5 Liaison with IECEx ExTAG

IECEx OD 035 (A procedure to generate, discuss, report and publish ExTAG Decision Sheets) requests that the IECEx includes the applicable convenors of IEC TC31
maintenance teams in the circulation of the notification of a new draft IECEx Decision Sheet. These are located at http://www.iecex.com/publications/extag-decisions/
. The MT normally has 6 weeks to respond to a draft ExTAG Decision Sheet using the form which is also found on the IECEx ExTAG page. The WG or MT convenor circulates the draft DS using the IEC Collaboration Platform. Any comments from the MT members are collated by the MT convenor and a consensus view of the MT is reported to IECEx ExTAG by the convenor indicating the MT number in the “ExCB/ExTL” column.

The WG or MT may point out that the decision sheet is not desirable because it will change the technical requirements of the standard, or an Interpretation Sheet is more appropriate. If a technical change to the standard is shown to be necessary an amendment or new edition should be proposed in the normal manner.

Note The TC or SC can decide to bring forward the stability date to allow an urgent amendment to be processed.

5 Guidance for chairmen, vice-chairmen, secretaries and convenors

5.1 TC 31 GWP Document

The Secretary of TC 31 or the relevant sub-committee is to send a copy of this GWP document to the convenor at the start of each project and/or maintenance cycle.

This TC 31 reference document is available for viewing and downloading on the IEC TC 31 “Dashboard”, General Information

5.2 IEC TC/SC Officers eTraining

This training is designed for IEC TC/SC’s chairmen, vice-chairmen, secretaries and convenors. It gives the opportunity to new comers to familiarise themselves with their main tasks and relevant procedures in conducting their IEC related activity. For experienced chairmen, secretaries and convenors, it is an easy way to refresh and update their knowledge.

The training is modular giving flexibility for the structure, content and duration. When taken in IEC premises it gives the possibility to meet with the majority of IEC CO individuals involved in the specific tasks of TC/SCs officers.

To access use:

http://etraining.iec.ch/

5.3 IEC List of “Country Codes”


5.4 Use of editing marks

All CDs that are revisions of documents should be circulated as complete texts including editing marks and not just as a list of major technical changes to be made to the existing text. This is for ease of understanding of what has been changed, added or removed thus saving time as in the past experts did not realize critical text had been deleted. Please do not select “use balloons” in the “track changes” setup. This will allow the text to be displayed in legislative format, i.e. with strikethroughs and underlines.
It is useful to circulate CDV texts including editing marks within the MT, prior to submission to the TC or SC Secretary, to allow a final review prior to circulation to NCs. IEC will not allow a CDV to include editing marks. A “clean” copy of the CDV text is required to be submitted for circulation. However, it is recommended that a separate INF document including the editing marks be circulated along with the CDV.

5.5 CDV publication without FDIS

If at CDV stage there are no negative votes it is the responsibility of the chairman and secretary to decide if publication without an FDIS is appropriate. They will take into account advice from the convenor before deciding to publish with or without an FDIS stage. The chairman and secretary only intend to publish without an FDIS stage if CDV comments are minor editorial only.

5.6 Redline standards

Standards can also be published as redline versions, which provide a quick and easy way to compare all the changes between the standard and its previous edition. It is the preferred position of TC 31 to have a redline version, but it is recognised that where there are major changes to a standard, a redline version may be so full of changes it is not useful. In this case the convenor should recommend whether the changes between one edition of a standard and the next justify the publication of a redline version.

5.7 IEC supporting information

Guidance by Role is a useful place to start. Information on the roles and responsibilities of chairmen, secretaries, convenors, project leaders and experts can be found at:

http://www.iec.ch/standardsdev/resources/tcroles/

IEC technical support information including forms and templates can be found and downloaded from the IEC website:

http://www.iec.ch/standardsdev/resources/docpreparation/forms_templates/

The IEC website has a ‘good working practice forum’. It was agreed that all useful IEC material such as this should be referenced in this Good Working Practice document, where applicable links could also be included.

5.8 Meeting Organization

A checklist for arranging TC / SC meetings is given in Annex F. The Meeting Registration System shall be used for meetings held in conjunction with the plenary or CAG. It can also be used for individual meetings.

NOTE IEC experts who have an IEC login but are not TC 31 experts cannot see the meetings on the MRS. They have to be added by the IEC helpdesk (helpdesk@iec.ch).

5.9 Meeting decisions and resolution

Decisions and resolutions should be displayed on the screen while they are being discussed, to ensure that all attendees understand the proposal.

5.10 SC 31M

Working Procedures for SC 31M are given in Annex G.
6 Committee General

Members of TC 31 Maintenance Teams should feedback any ideas they have to the TC 31 Secretary for consideration to be included in the good working practice document. The inclusion in the document may initially be in draft form for later discussion by TC 31. In some instances the inclusion or idea might only be a topic for discussion.
# Annex A

## Changes to TC 31 Standards

### Example of How to Show the Significance of Changes

The significance of changes between IEC Standard, IEC 60079-X, Edition 6.0, 2011-06 and IEC 60079-X, Edition 5.0, 2007-10 are as listed below:

<table>
<thead>
<tr>
<th>Changes</th>
<th>Clause</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clarification on the need to provide service temperature information for Ex Components in the Schedule of Limitations</td>
<td>5.2</td>
<td>X</td>
</tr>
<tr>
<td>Relocation of EPL Da dust layer requirements from IEC 60079-18 &amp; IEC 60079-31</td>
<td>5.3.2.3.1</td>
<td>A1</td>
</tr>
<tr>
<td>Added for EPL Db, a dust layer in a specified orientation, marked as TL</td>
<td>5.3.2.3.4</td>
<td>X</td>
</tr>
<tr>
<td>Added requirement that where an adhesive is used to secure a gasket, it shall be used within its COT and shall comply with the requirements for cements.</td>
<td>6.5</td>
<td>C1</td>
</tr>
<tr>
<td>Requirements relocated to IEC 60079-28</td>
<td>former 6.6.2</td>
<td>A2</td>
</tr>
<tr>
<td>Ultrasonic requirements updated based on latest research work</td>
<td>6.6.3</td>
<td>X</td>
</tr>
<tr>
<td>Added reference to IEC 60079-28</td>
<td>6.6.4</td>
<td>A2</td>
</tr>
<tr>
<td>Material identification parameters have been revised to reflect reasonably obtainable information</td>
<td>7.1.2.2</td>
<td>X</td>
</tr>
<tr>
<td>Relocation of 10 K margin for EPL Gc or Dc from IEC 60079-15, IEC 60079-18 &amp; IEC 60079-31</td>
<td>7.2.2</td>
<td>A3</td>
</tr>
<tr>
<td>Added additional relaxation for the case where a surface is in contact with an earthed surface on only two of four sides.</td>
<td>7.4.2 b)</td>
<td>X</td>
</tr>
<tr>
<td>Added reference to IEC 60243-1 and IEC 60243-2 for test method to require a 4 kV DC test.</td>
<td>7.4.2.c</td>
<td>C2</td>
</tr>
<tr>
<td>Additional guidance added with respect to the possible Specific Conditions of Use</td>
<td>7.4.2 e)</td>
<td>X</td>
</tr>
<tr>
<td>Clarified Group II, EPL Ga limits</td>
<td>8.3</td>
<td>X</td>
</tr>
<tr>
<td>Added limitation for external surfaces of &gt;65% copper</td>
<td>8.5</td>
<td>C3</td>
</tr>
<tr>
<td>Added clarification as to what is considered a</td>
<td>9.1</td>
<td>X</td>
</tr>
<tr>
<td>Changes</td>
<td>Clause</td>
<td>Minor and editorial changes</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>----------</td>
<td>-----------------------------</td>
</tr>
<tr>
<td>tool</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clarified that the tolerance class of the set screw is not critical, only that it not protrude from the threaded hole after tightening.</td>
<td>9.4</td>
<td>X</td>
</tr>
<tr>
<td>Added requirements for EPL Gc and Dc</td>
<td>20.1</td>
<td></td>
</tr>
<tr>
<td>The test circuit requirements for a flameproof connection have been removed as they are more completely specified in IEC 60079-1.</td>
<td>20.2</td>
<td></td>
</tr>
<tr>
<td>The impact test requirements for luminaires are relocated to Table 15</td>
<td>21.1Table 15</td>
<td>X</td>
</tr>
<tr>
<td>New cell types and data added based on latest available data</td>
<td>Table 13</td>
<td></td>
</tr>
<tr>
<td>New cell types and data added based on latest available data</td>
<td>Table 14</td>
<td></td>
</tr>
<tr>
<td>Clarified the test voltage for maximum surface temperature</td>
<td>26.5.1.3</td>
<td>X</td>
</tr>
<tr>
<td>Relocation of EPL Da dust layer requirements from IEC 60079-18 &amp; IEC 60079-31</td>
<td>26.5.1.3</td>
<td>A1</td>
</tr>
<tr>
<td>Relocation of EPL Db specified dust layer requirements from IEC 60079-31</td>
<td>26.5.1.3</td>
<td>A4</td>
</tr>
<tr>
<td>Added for EPL Db, a dust layer in a specified orientation, marked as TL</td>
<td>26.5.1.3</td>
<td>B1</td>
</tr>
<tr>
<td>Clarified that for EPL Dc, the testing is conducted without a dust layer.</td>
<td>26.5.1.3</td>
<td>X</td>
</tr>
<tr>
<td>Text added to address marking of “Ex associated equipment”</td>
<td>29.4</td>
<td></td>
</tr>
<tr>
<td>Text added to address marking of “Ex associated equipment”</td>
<td>29.5</td>
<td></td>
</tr>
<tr>
<td>Text added to address marking of equipment intended to be installed in a boundary wall.</td>
<td>29.9</td>
<td></td>
</tr>
<tr>
<td>The marking of Ex Component enclosure was aligned with the marking requirements of IEC 60079-1 and IEC 60079-7</td>
<td>29.10</td>
<td></td>
</tr>
<tr>
<td>The alternate marking of EPL has been deleted.</td>
<td>former 29.13</td>
<td></td>
</tr>
<tr>
<td>Additional instruction material for electric machines added</td>
<td>30.3</td>
<td></td>
</tr>
<tr>
<td>Additional instruction material for cable glands added</td>
<td>30.5A.5</td>
<td></td>
</tr>
</tbody>
</table>
NOTE: The technical changes referred to include the significance of technical changes in the revised IEC Standard, but they do not form an exhaustive list of all modifications from the previous version. More guidance may be found by referring to the Redline Version of the standard.

Explanations:

A) Definitions

Minor and editorial changes

<table>
<thead>
<tr>
<th>Term</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>clarification</td>
<td>Change to explain or make clearer the meaning of a technical requirement.</td>
</tr>
<tr>
<td>decrease of technical requirements</td>
<td>Make a technical requirement less stringent or less demanding.</td>
</tr>
<tr>
<td>minor technical change</td>
<td>Change to a technical requirement that is not substantial.</td>
</tr>
<tr>
<td>editorial corrections</td>
<td>Change to the wording of a technical requirement that does not affect meaning.</td>
</tr>
</tbody>
</table>

These are changes which modify requirements in an editorial or a minor technical way. They include changes of the wording to clarify technical requirements without any technical change, or a reduction in level of existing requirement.

Note for Convenors - For these changes additional explanatory information may be provided in clause B) below as “Ax” Notes.

Extension

<table>
<thead>
<tr>
<th>Term</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>addition of technical options</td>
<td>Add new technical requirements or modify existing requirements.</td>
</tr>
</tbody>
</table>

These are changes 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 will not have to be considered for products in conformity with the preceding edition.

Note for Convenors - For these changes additional explanatory information may be provided in clause B) below as “Bx” Notes.

Major technical changes

<table>
<thead>
<tr>
<th>Term</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>addition of technical requirements</td>
<td>Add new technical requirements.</td>
</tr>
<tr>
<td>increase of technical requirements</td>
<td>Make a technical requirement more stringent or demanding.</td>
</tr>
</tbody>
</table>

These are changes to technical requirements (addition, increase of the level or removal) made in a way that a product in conformity with the preceding edition will not always be able to fulfil the requirements given in the later edition. These changes have to be considered for products in conformity with the preceding edition.

Note for Convenors - For these changes additional information shall be provided in clause B) below as “Cx” Notes.

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

Note for Convenors – Use hyperlinks to the clause numbers in the document. For the “Ax”, “Bx”, and “Cx” references, use a “bookmark” for each, and then hyperlink the actual note to that reference.

B) Information about the background of Changes

A1 The dust layer requirements for EPL Da are unchanged from what previously existed in IEC 60079-18, Ed 4 and IEC 60079-31, Ed 2, but have been relocated to IEC 60079-0 to allow consistent application in all techniques.

A2 IEC 60079-28 now includes all requirements for optical radiation for all EPLs.
A3 The COT requirements for EPL Gc or Dc are unchanged from what previously existed in IEC 60079-15, Ed 4, IEC 60079-18, Ed 4, and IEC 60079-31, Ed 2, but have been relocated to IEC 60079-0 to allow consistent application in all techniques.

A4 The dust layer requirements for EPL Db with a specified dust layer depth are unchanged from what previously existed in IEC 60079-31, Ed 2, but have been relocated to IEC 60079-0 to allow consistent application in all techniques.

B1 Dust layer requirements for EPL Db with a dust layer in a specified orientation have been added.

C1 It is recognized that the new requirements were, in many cases, already applied. The change is to ensure that they are uniformly and consistently applied.

C2 Require that the test be conducted at 4 kV DC.

C3 The limitation applies to external surfaces of other than cable glands, blanking elements, thread adapters and bushings.

C4 The added requirements for tool securing and marking are consistent with the approach in 60079-15

C5 Voltage values were changed following additional research due to the complicated assessment and sometimes unspecified construction of Li/Ion-cells. It was found that some voltage values previously stated were too low.

C6 The now required EPL marking may be other than that permitted by the level or protection to account for limiting restrictions of material or plastic material surface area.

C7 Additional instruction material for electric machines required to facilitate selection, installation, and maintenance.

C8 Additional instruction material for cable glands required to facilitate selection and installation.
Annex B

Titles for the IEC 60079 series

At the TC31 Plenary Meetings in 2005 and 2006 it was agreed that:

- For future editions of the 60079 series “Explosive atmospheres” the titles will be drafted by the Editing Committee.

- The generic title for the 60079 series needed changing for future editions as it no longer reflected the content of the present series or current developments with the combining gas and dust.

- The change in generic title of the 60079 series does not affect or alter the title and scope of TC31 and its subcommittees.

An up to date list of TC 31 publications can be found at:

TC31

SC31G

SC31J

SC31M
Annex C

SAMPLE Draft Agenda
(EDIT TO SUIT)

INTERNATIONAL ELECTROTECHNICAL COMMISSION
TECHNICAL COMMITTEE 31: EQUIPMENT FOR EXPLOSIVE ATMOSPHERES

MT60079-29: Gas detectors

Draft agenda for the meeting to be held in Frankfurt Germany, from 12\textsuperscript{th} to 14\textsuperscript{th} October 2008 starting at 09.00 and finishing at 17.00.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Documents</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Opening of the meeting</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Approval of the agenda</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Review of membership list</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Note the minutes/notes/report of the last meeting</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Information from the Convenor</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>MT60079-29-1</td>
<td></td>
</tr>
<tr>
<td>6.1</td>
<td>Review and complete 31/567/CC</td>
<td></td>
</tr>
<tr>
<td>6.2</td>
<td>Redraft document implementing the above and input from MT experts</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>60079-29-2</td>
<td></td>
</tr>
<tr>
<td>7.1</td>
<td>Review and complete 31/568/CC</td>
<td></td>
</tr>
<tr>
<td>7.2</td>
<td>Redraft document implementing the above and input from MT experts</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Recommend the next stage in the progress of the documents</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Review of the time schedule / stability dates</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Review of applicable IECEx Decision Sheets</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Any other business</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Date and place of the next meeting</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Close of the meeting</td>
<td></td>
</tr>
</tbody>
</table>

Note: Items marked in blue above are mandatory items for all Agenda
Annex D

Standard Text – Non-Participating Experts

From the Convenor to Non Participating WG/MT Expert Members.

Dear XXXXXXX

It has come to my attention that you have not attended the past XX meetings of XX nor have you been active in the submission of comments to the documents circulated. Active participation of all of the appointed experts is essential for the Maintenance Team and Working Group system to function properly. The TC 31 Good Working Practice and the IEC Guidelines for Convenors advise "If an expert is not active and does not attend two successive meetings, the project leader, working group or Maintenance Team convenor should inform the TC/SC secretary and ask the National Committee to confirm that the person is still available and, if not, to find a replacement."

Have there been extenuating circumstances that have prohibited your participation? If so, please let me know immediately as I will soon be contacting the TC/SC secretary to begin the above process which could result in your removal from the XX by your National Committee.

XXXX
Convenor MT60079-XX
Annex E

Constitution of the TC 31 Chairman's Advisory Group
(June 2014)

E.1 Preamble

The establishment of the Chairman’s Advisory Group (CAG) in TC 31 was approved by National Committees (NCs) during the meetings of TC 31 held in New Delhi, Houston, Seoul and Vladivostok as reported in documents 31/262/RM, 31/279/RM, 31/380/RM and 31/1353/RM. The constitution of the CAG is in accordance with the provisions of the thirteenth edition of ISO/IEC Directives, Part 1, subclause 1.13.

E.2 Name

The name of the group is Chairman's Advisory Group, acronym CAG.

Note: In the IEC system the committee is referred to as AG36.

E.3 Function

The CAG of TC 31 is an advisory group to the Chairman of TC 31 and functions as the steering group for TC 31.

E.4 Purpose

The purpose of the CAG is to assure:

- Timely and efficient completion of TC 31 and its subcommittee’s programme of work;
- Productive performance of the Working Groups (WG), Maintenance Teams (MT), and Projects Teams (PT).

E.5 Exclusion

The CAG does not prepare any technical documents relating the TC 31 projects.

E.6 Membership

The members of the TC 31 CAG are:

- TC Chairman;
- immediate past Chairman;
- TC Vice-Chairmen;
- SC Chairmen;
- SC Vice-Chairmen;
- TC Secretary and Assistant Secretary;
- SC Secretaries and Assistant Secretaries;
- Convenors of WG/MT/PT/AHGs of TC 31 and its subcommittees;
- the IECEx executive;
Working group convenors, maintenance team convenors, project team project leaders and ad-hoc group rapporteurs are all referred to as convenors for the purposes of this document.

The Chairman and Secretary of CENELEC TC 31 and CEN TC 305 are invited to attend meetings of the CAG as observers to serve as a liaison with those committees.

Other persons may be invited by the Chairman of TC31, as guests, to attend specific meetings of the CAG as appropriate.

E.7 Meetings

Meetings of the CAG are usually held between TC 31 Plenary meetings, subject to the decision of the Chairman of TC 31.

E.8 Accountability

The CAG conducts its tasks in a transparent manner and is fully accountable at all times to the TC 31 member NCs at the TC 31 meetings or by correspondence.

E.9 Report of Activities

The outcomes of CAG meetings are in the form of a full report. The report is circulated to TC 31 P- and O members NCs as INF documents and is reported at the next TC 31 meeting. In appropriate cases, CAG recommendations may be discussed by TC 31 P-members and, when necessary, the appropriate recommendations may be approved by P-members to become decisions of TC 31, or may be cancelled by TC 31 P-members. Any TC 31 P-member may, if so desired, request the CAG to consider a proposal or any other matter related to TC 31 activities. Relevant recommendations should then be circulated to TC 31 P- and O members.
## Annex F

### Checklist for arranging TC / SC meetings

<table>
<thead>
<tr>
<th>Time</th>
<th>Action</th>
<th>Responsibility</th>
</tr>
</thead>
</table>
| **T - 24 months** | Secretary plan in place for the plenary meetings.  
   Note: It is normal practice for the MT/WG/PTs to meet at the same time as TC31 and its SCs | TC31 Secretary | N/A |
| **T - 24 months** | Secretary plan in place for the CAG meeting.  
   Note: It is normal practice for the MT/WG/PTs to meet at the same time as the CAG. | N/A | TC31 Secretary |
| **T - 18 months** | Solicit host country (if not done by IEC C.O. when meeting is in conjunction with GM).  
   - Tentative date checked against IECEx schedule.  
   - Cannot meet within 2 weeks of the general meeting (unless in conjunction with GM)  
   If TC31 and its SCs are not invited to the GM, take up one of the open offers. | TC31 Secretary | N/A |
| **T - 18 months** | Solicit host country.  
   - Tentative date checked against IECEx schedule. | N/A | TC31 Secretary |
| **T - 12 months** | Host confirmation & official invitation To TC Officers. | Host Country | Host Organization |
| **T - 11 months** | Acceptance by Secretary. Reserve block space on IECEx schedule. | TC31 Secretary | TC31 Secretary |
| **T - 9 months** | Email to chairs, convenors, leaders with meeting request form | TC31 Secretary | TC31 Secretary |
| **T - 8.5 months** | Reminder email for meeting request response. | TC31 Secretary | TC31 Secretary |
| **T - 8 months** | Circulate first-pass schedule to meeting leaders.  
   Schedule discussions & shuffling. | TC31 Vice Chairman & TC31 Secretary | TC31 Vice Chairman & TC31 Secretary |
<p>| <strong>T - 7 months</strong> | Finalize meeting schedule. Circulate &amp; update IECEx schedule. | Vice Chairman TC31 Secretary | Vice Chairman TC31 Secretary |
| <strong>T - 6 months</strong> | Must have a formal meeting notice with dates and location. | Host Country | Host Organization |
| <strong>T - 4 months</strong> | Detailed Meeting &amp; hotel information posted by host. Registration starts. | Host Country | Host Organization |</p>
<table>
<thead>
<tr>
<th>Time</th>
<th>Action</th>
<th>Responsibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>T - 4 months</td>
<td>Members register</td>
<td>Plenary</td>
</tr>
<tr>
<td></td>
<td>− TC/SC delegates and observers are Approved by their National Committees</td>
<td></td>
</tr>
<tr>
<td></td>
<td>− MT Experts are automatically Approved if they are an appointed expert</td>
<td></td>
</tr>
<tr>
<td></td>
<td>− MT observers request attendance to convenor and register pending Approval. Approval is by TC/SC secretary with concurrence of convenor and host.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Host Country</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Members</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TC/SC Secretary &amp; Convenor</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Members</td>
<td></td>
</tr>
<tr>
<td>T - 4 months</td>
<td>Members register</td>
<td>Plenary</td>
</tr>
<tr>
<td></td>
<td>− MT Experts are automatically Approved if they are an appointed expert</td>
<td></td>
</tr>
<tr>
<td></td>
<td>− MT observers request attendance to convenor and register pending Approval. Approval is by TC/SC secretary with concurrence of convenor and host.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TC/SC Secretary &amp; Convenor</td>
<td></td>
</tr>
<tr>
<td>T - 4 months</td>
<td>Draft agendas (DA).</td>
<td>TC/SC Secretary</td>
</tr>
<tr>
<td></td>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td>T - 4 months</td>
<td>MT/PT/WG/AHG/etc. notification</td>
<td>Convenor</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Convenor</td>
</tr>
<tr>
<td>T - 2 months</td>
<td>Draft CAG agenda</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TC31 Secretary</td>
</tr>
<tr>
<td>T - 2 months</td>
<td>Circulation of MT/PT/WG/AHG/etc. agenda</td>
<td>Convenor</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Convenor</td>
</tr>
<tr>
<td>T - 0</td>
<td>Meetings start.</td>
<td>All</td>
</tr>
<tr>
<td></td>
<td></td>
<td>All</td>
</tr>
</tbody>
</table>
Annex G
IEC SC 31M – Working Procedures

G.1 Objective

The objective of this Annex is to provide a background to the establishment of SC 31M and to specify its ongoing working procedures.

G.2 Background

This document reflects the outcome of discussions between ISO/TMB and IEC/SMB on the potential conflict with IEC TC 31 due to the proposal to set up a new ISO TC on explosive atmospheres.

It was jointly agreed by ISO/TMB and IEC/SMB to the establishment of IEC Subcommittee SC 31M within IEC TC 31 instead of establishing a separate committee in ISO. It was agreed that IEC SC 31M would produce IEC/ISO double logo standards as either double prefix ISO/IEC, or single prefix ISO and IEC standards.

In 2007 both the ISO TMB (34/2007 and resolution 61/2007) and the IEC SMB ((SMB decision 129/27) agreed the formation of the IEC technical Sub Committee SC 31M to define standards for Non-electrical equipment and protective systems for explosive atmospheres. The standard carries the dual logo and either single prefix or double ISO/IEC prefix in the 80079 series. Note that part numbers in 60079 (TC 31) and 80079 (SC 31M) cannot be duplicated. Whilst developments follow the IEC work flow there are some considerations that require coordination between IEC, ISO and CEN (in particular at the CDV and FDIS stages).

Note that by default the whole 80079 series falls under the EU ATEX and/or Machinery Directive and therefore requires the development and approval of the associated Annexes ZA; which are carried out under CEN.

It was agreed that the TC 31 CAG would have a formal role in the allocation of work to SC 31M, including consideration of work within TC 31 or other subcommittees that might better be managed in SC 31M.

The call for experts for SC 31M, 31M/1/AC, was circulated on 29 June 2007. The first meeting of SC 31M took place in Kuala Lumpur, Malaysia on 7 November 2007.

G.3 Outcomes from the Approval Process

G.3.1 Title

The title of IEC SC 31M was agreed to be:

Non-electrical equipment and protective systems for explosive atmospheres

G.3.2 Scope

The scope of SC 31M is:

To prepare and maintain international standards relating to non-electrical equipment and protective systems for use where there is a hazard due to the possible presence of explosive atmospheres of gases, vapours, mists or combustible dusts.

Notes:

Note: For the purposes of this sub-committee non-electrical equipment is defined as "equipment which can achieve its intended function mechanically". For the purposes of this sub-committee, ‘Protective system’ is defined as devices other than components of the
equipment which are intended to halt incipient explosions immediately and/or to limit the effective range of an explosion.

G.3.3 Future Changes to Title or Scope

Any future changes of title and/or scope of SC 31M should follow the normal procedures with a final ratification by the IEC/SMB and ISO/TMB for the sake of transparency.

G.3.4 Establishment of the SC 31M

SC 31M was established through direct approval by IEC/SMB and ISO/TMB not via normal process specified in the IEC Directives.

G.3.5 Secretariat

The Secretariat of IEC SC 31M was established through direct approval by IEC/SMB and ISO/TMB, allocating the IEC SC 31M Secretariat to ISO Germany/ DIN.

G.3.6 Chairman

The founding Chairman of IEC SC 31M, Dr Heino Bothe, was approved by IEC/SMB and ISO/TMB for an initial term of 6 years. Succeeding chairmen are appointed by TC 31. For any extensions of term of office or change of chairman, the procedures given in the ISO/IEC Directives – Supplement shall be followed.

G.3.7 Reporting on SC 31M

There should be periodic reporting to IEC/SMB and ISO/TMB on the functioning of SC 31M.

G.4 Working procedures

The proposed working procedures are given in table G.1 below.

The following scenario is based on the assumptions that IECSC 31M deliverables will be:
- IEC/ISO double logo with ISO prefix
- IEC/ISO double logo with ISO/IEC(preferred) or IEC prefix

P-members and experts will be recorded in the IEC data base and IEC Expert Management System (EMS) respectively and should represent both IEC and ISO interests in their country.

**Table G.1 – Working Procedures**

<table>
<thead>
<tr>
<th>Activity</th>
<th>Deliverables</th>
</tr>
</thead>
<tbody>
<tr>
<td>Submission of NPs</td>
<td>Parameters NPs for SC 31M will be defined by TC 31 CAG (including SC 31M participation)</td>
</tr>
<tr>
<td></td>
<td>NPs within the scope and clearly defined parameters of SC 31M should be submitted to this SC according to the ISO/IEC Directives Part 1, clause 2.3.2.</td>
</tr>
<tr>
<td>Voting on NPs</td>
<td>NPs will be circulated and voted on in SC 31M. This circulation occurs only within IEC.</td>
</tr>
<tr>
<td></td>
<td>Voting using the IEC electronic voting system.</td>
</tr>
<tr>
<td></td>
<td>Acceptance criteria according to the existing ISO/IEC Directives Part 1 (simple majority of P-members voting and the correct number of experts)</td>
</tr>
<tr>
<td>Project numbering</td>
<td>ISO/IEC 8XX79 series of publications</td>
</tr>
<tr>
<td>Work programme (WP)</td>
<td>The WP will be recorded in the IEC data base/ website.</td>
</tr>
</tbody>
</table>
### Activity | Deliverables | IEC/ ISO double logo with ISO/IEC prefix | IEC/ ISO double logo with ISO prefix
--- | --- | --- | ---
Working document numbering | Using the IEC system and recorded in the IEC project data base. |  |
Distribution of working documents up to the CDV stage | Working documents to be circulated using the IEC server. |  |
Distribution of working document at the CDV and FDIS stages | Parallel circulation within both IEC and ISO organizations.  
Note – At this stage all of the IEC and ISO member bodies have the right to vote and comment on CDVs and FDISs |  
As there are no P-members within ISO, the second voting criterion will be the only one applicable to these documents within ISO, that is to say < 25% negative votes of all ISO members casting a vote |
Editing - basic | To ensure a uniform format and treatment of the subject matter, then all editing activities would be carried out within the IEC. |  |
Copyright | IEC or ISO | ISO |
Publishing – cover pages, foreword etc | IEC ISO |  |
Maintenance of publications | Publications transferred for other areas of TC 31 to SC 31M are expect to be published as ISO/IEC 8XX79 series of publications | ISO follows the systematic review process. That means that all published standards will be reviewed by ISO members 3 years after first publication and then the result of the review will be given in the form of a recommendation to the decision will be taken by the lead organisation (IEC in our case). "Review" means that the NC are asked whether they vote for confirmation, revision or withdrawal of the standard in question. |
Parallel voting procedures with CENELEC and CEN | Submitted to parallel voting procedures in CENELEC/ CEN | Submitted to parallel voting procedures in CEN. |

This document clarifies these flows and coordination points for the development of 80079 series of standards developed within IEC SC31M. This document uses the IEC terms CDV and FDIS. Their equivalents are provided in the table below:

**Table G.2 – IEC and ISO equivalent terms**

<table>
<thead>
<tr>
<th>IEC Term</th>
<th>ISO Term</th>
<th>CEN Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDV</td>
<td>DIS</td>
<td>CEN/ENQUIRY</td>
</tr>
<tr>
<td>FDIS</td>
<td>FDIS</td>
<td>CEN/FV</td>
</tr>
</tbody>
</table>

It is highlighted that developments of 80079 standards within SC31M often require input from the European standards development organization CEN. However the IEC does not have a formal agreement with CEN it requires submission through ISO via the ISO Vienna agreement. The ISO
Vienna agreement with CEN can be interpreted as analogous to the IEC Frankfort agreement with Cenelec, see diagram below:

*Figure G.1 – Interaction with CEN and CENELEC*

The following provides the high level process flow of 80079 standard projects developed within IEC SC31M

<table>
<thead>
<tr>
<th>Stages</th>
<th>IEC Process/ Documents</th>
<th>ISO interaction</th>
<th>CEN interaction</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Preliminary (optional)</td>
<td>New proposal &amp; Maintenance</td>
<td>JEC TO IS</td>
</tr>
<tr>
<td>2</td>
<td>Proposal</td>
<td>IEC TO IS</td>
<td>ISO TPM &amp; <a href="mailto:projects@iso.org">projects@iso.org</a></td>
</tr>
<tr>
<td>3</td>
<td>Preparatory</td>
<td>IS</td>
<td>NWI</td>
</tr>
<tr>
<td>4</td>
<td>Committee</td>
<td>CEN 305 Secretary</td>
<td>CEN 305 Secretary</td>
</tr>
<tr>
<td>5</td>
<td>Enquiry</td>
<td>CDV</td>
<td>CEN 31M Secretary</td>
</tr>
<tr>
<td>6</td>
<td>Approval</td>
<td>CDV</td>
<td>CEN 31M Secretary</td>
</tr>
<tr>
<td>7</td>
<td>Publication</td>
<td>IS</td>
<td>CCMC: prEN ISO(/IEC)</td>
</tr>
</tbody>
</table>

Key: 

*Figure G.2 – Points of coordination between IEC, ISO and CEN for 80079 series of standards within SC31M*

Note that skipping FDIS is possible (IEC Fast Track) but will require coordination between IEC, ISO and CEN

The following diagrams provide a more detailed flow for the IEC stages for the development of 80079 International Standards within IEC TC31/SC31M.
Figure G.3 – Consolidated Process flow between IEC, ISO and CEN for IEC Proposal, Committee and Enquiry (CDV/DIS) Stages
IS Approval Stage (FDIS -> Pub)

Figure G.4 Consolidated Process flow between IEC, ISO and CEN for IEC Approval (FDIS) Stage
Note 1: CEN Annexes ZA submission/updates to ISO can only occur during the period after ISO has received the documents for vote from IEC (CDV and FDIS stages) and during the associated ballot.

Note 2 this document does not include the interaction from the use of European Commission third party HAS consultants within the CEN process. Irrespective of the ballot results, in the case of a HAS Consultant negative assessment, then ISO & IEC will discuss and mutually agree on the appropriate resolution.
Annex H

Webconferencing

H.1 Introduction

The high cost of travel and the widespread availability of webconferencing tools mean that this is becoming a more realistic way of contributing to meetings under some circumstances. However there are still problems:

- The technology needed to permit efficient & effective use of teleconferencing for larger and longer meetings is not always widely available at the typical meeting locations:
  - microphones and speakers for each participant are needed for maximum effectiveness;
  - most large meeting spaces are not configured for an optimal teleconference experience. Many of the things that make an in-person meeting comfortable – a large room with high ceilings to accommodate a large crowd, tables and chairs, paper handouts – are exactly the things to be avoided in a teleconference.

- Teleconferencing into a meeting also has many disadvantages to the person calling in:
  - there is limited dialogue and interface between those attending in person and those teleconferencing;
  - callers cannot benefit by the interaction which takes place outside the meeting room, at coffee breaks and social events;
  - those calling in are sometimes forgotten by the host when questions are invited;
  - it can be a difficult experience spending the entire day on a teleconference. Phone participants are more likely to multi-task, not giving full attention or being actively engaged much of the time.

- Teleconferencing can decrease the overall meeting effectiveness for everyone, adversely affecting those participating in-person:
  - technical problems can delay or interrupt the meeting
  - those calling in often forget to mute their phones leading to extraneous noises or feedback;
  - the necessity to manage the people calling in places an administrative burden on the host and can lead to delays.

Therefore TC 31 discourages teleconferencing into Working Group meetings for an entire, day-long session. Calling in to present, or to listen to, a specific report or portion is easier to manage. Meetings held solely by teleconference should have a very focused and limited agenda, and be of short duration. Regular breaks should be held in longer meetings.

H.2 Meetings

H.2.1 Remote participation in a physical meeting

At the discretion of the Group Leader, electronic participation in all or part of a meeting may be allowed on a meeting by meeting basis, by announcing it in the meeting agenda or by request.

Since the availability of tools can never be guaranteed, there should be a clear statement that electronic participation cannot be guaranteed.
Electronic participation for specific agenda items may be offered as an alternative to the whole meeting. This participation allows for contributions and presentations on specific items. If necessary the agenda should be rearranged to make remote attendance more convenient.

At the beginning of the meeting, the host should identify all participants and ensure that all remote participants are noted on the attendance list.

The host should establish proper etiquette for the calls, including a way for participants to ask for the floor, asking participants to:

- announce their name each time they speak;
- be brief and clear;
- speak slowly so that those for whom English is not their native language can understand;
- mute their lines when not speaking if they operate in a noisy environment.

To ensure that all participants understand discussions during the meeting, the host should ensure that the same meeting documents are being displayed to the remote participants and those present in the meeting.

**H.2.2 Virtual meetings**

Short meetings held solely by teleconference for a small number of participants are not subject to the same limitations as calling in to a physical meeting. However they still require careful planning and management.

Be mindful of timezone differences when scheduling meetings with participants from different parts of the world. Online tools are available to help with scheduling, such as [http://www.timeanddate.com/worldclock/meeting.html](http://www.timeanddate.com/worldclock/meeting.html). If there is going to be a series of meetings, consideration should be given to varying the timing so that the burden of inconvenience is shared around.

Meetings should be short, ideally no more than two hours.

**H.2.3 Best practices for hosts**

Be aware that participants are relying on you to facilitate the meeting. When facilitating a web conference, please:

- ensure that you have fast internet access. Acceptable values are more than 3 mbps download, more than 0.3 mbps upload, and less than 100 ms ping times;
- be familiar with the web and audio conferencing systems. Practice using the web conferencing system before making your first presentation. At a minimum, you should feel comfortable logging into your account and starting your meeting, sharing and unsharing your screen, handing over keyboard and mouse control to other participants, chatting with others, muting or unmuting participants to minimize extraneous noise, and turning your webcam on and off;
- help first time participants by having them join a test meeting prior to your real meeting. This will ensure that they meet all basic technical requirements and will minimize the number of sign-in problems when your real meeting starts;
- start your web meeting a few minutes early so you can greet participants as they enter;
- speak clearly and slowly during your presentation;
- engage your audience by asking direct questions. This will help you assess your audience’s attentiveness and comprehension;
- realize that participants are watching what is on your screen. Keep your on-screen display synchronized with your presentation.
It is strongly recommended that another person is delegated to answer chat messages or monitor the participants during the meeting. Do this by making the other person the host of the meeting, while you retain the presenter role. If another person is not available you may wish to use a second monitor to view the teleconference controls, so your on-screen presentation remains clean.

The use of a webcam is not recommended unless really necessary. It uses valuable bandwidth and rarely adds anything to the meeting.

H.2.4 Etiquette

Do:

— identify yourself when speaking (as everyone may not recognize your voice);
— use the mute function when not speaking (and make sure you know how to quickly un-mute);
— check the placement of your headset, if applicable (to prevent hearing the 'heavy breather');
— pay attention (and be ready to quickly respond);
— actively participate;
— give others the opportunity to speak & respond;
— find a quiet place to take the call;
— have the proper equipment available to use (multiple microphones, amplification, etc.);
— connect early to assure computer connection/software compatibility (when using online participation tools);
— as meeting host, take a roll call of all participants;
— as meeting host, regularly address the call-in participants by name, to assure their engagement;
— as meeting host, distribute the call-in details in the meeting invitation AND agenda (rather than just a separate email);
— for audio, please use a dedicated headset (earphones + microphone) or a telephone. If you use your telephone for audio, please do not also use your computer for audio;
— if you have a slow or unreliable internet connection, consider using your telephone for audio instead;

Don’t:

— put your phone on hold (which can cause everyone to hear music or commercial info);
— talk over others;
— multi-task while participating remotely;
— make extraneous, distracting noises (shuffle papers; pencil tap, etc.);
— use cellphones or cordless phones, if at all possible (as they typically are less clear);
— use a single speaker phone for a large room of participants (those far away from the microphone/speaker will be unable to hear or be heard);
— use your telephone in speaker mode as this can cause echoing which degrades the sound quality for all participants. If you must use a speaker phone, please remember to mute it when you are not speaking. If you need "hands-free" operation, consider using a headset rather than a speaker phone.
## Annex I

### Summary of actions and time guidelines for the development of new standards

<table>
<thead>
<tr>
<th>Project Milestones</th>
<th>Time guidelines</th>
<th>Directives (Ed. 2016)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Circulation of Result on Vote for NP (RVN)</td>
<td>Start of the time counter</td>
<td>IEC Suppl. – 2.1.6</td>
</tr>
<tr>
<td>First Working Draft</td>
<td>6 months</td>
<td>IEC Suppl. – 2.1.6</td>
</tr>
<tr>
<td>First Committee Draft (CD)</td>
<td>12 months</td>
<td>IEC Suppl. – 2.1.6</td>
</tr>
<tr>
<td>Committee Draft for Vote (CDV)</td>
<td>24 months</td>
<td>IEC Suppl. – 2.1.6</td>
</tr>
<tr>
<td>Final Draft International Standard (FDIS)</td>
<td>33 months</td>
<td>IEC Suppl. – 2.1.6</td>
</tr>
<tr>
<td>Publication of the International Standard</td>
<td>36 months</td>
<td>IEC Suppl. – 2.1.6</td>
</tr>
<tr>
<td>Maintenance of the International Standard</td>
<td>Project finished before the stability date</td>
<td>IEC Suppl. - 2.9.3.2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Action Description</th>
<th>Action by</th>
<th>Form</th>
<th>Time guidelines</th>
<th>Directives (Ed. 2016)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Circulation of New Work Item Proposal (NP)</td>
<td>TC/SC Secretary</td>
<td>Form NP</td>
<td>4, 8 or12 weeks</td>
<td>IEC Suppl. Annex SO</td>
</tr>
<tr>
<td>Vote on NP</td>
<td>P-members of TC/SC</td>
<td>Form NP</td>
<td>4 weeks after close of vote on NP</td>
<td>IEC Suppl. – 2.3.5</td>
</tr>
<tr>
<td>Research of experts</td>
<td>TC/SC Secretary</td>
<td>Form RVN</td>
<td>4 weeks after close of vote on NP</td>
<td>IEC Suppl. – 2.3.6</td>
</tr>
<tr>
<td>Circulation of Result on Vote for NP (RVN)</td>
<td>TC/SC Secretary</td>
<td>Form RVN</td>
<td>4 weeks after close of vote on NP</td>
<td>IEC Suppl. – 2.3.6</td>
</tr>
<tr>
<td>Availability of first Working Draft</td>
<td>Project Leader</td>
<td>iecstd</td>
<td>6 months after circulation of RVN</td>
<td>IEC Suppl. – 2.1.6</td>
</tr>
<tr>
<td>Send CD to CO for circulation</td>
<td>TC/SC Secretary</td>
<td>Form CD</td>
<td>12 months after circulation of RVN</td>
<td>IEC Suppl. – 2.1.6</td>
</tr>
<tr>
<td>Comments on CD</td>
<td>P-members and O-members of TC/SC</td>
<td>Form CD</td>
<td>8, 12 or 16 weeks as agreed by TC/SC</td>
<td>Part 1 – 2.5.2</td>
</tr>
<tr>
<td>Compilation of comments on CD (CC)</td>
<td>TC/SC Secretary</td>
<td>Form CC</td>
<td>4 weeks after close of comments</td>
<td>Part 1 - 2.5.3</td>
</tr>
<tr>
<td>Send CDV to CO for translation and circulation</td>
<td>TC/SC Secretary</td>
<td>Form CDV</td>
<td>24 months after circulation of RVN</td>
<td>IEC Suppl. – 2.1.6</td>
</tr>
<tr>
<td>Translation of Committee Draft for Vote (CDV)</td>
<td>Central Office (CO)</td>
<td></td>
<td>7 weeks after receipt of the CDV</td>
<td>SMB/5938A/RV</td>
</tr>
<tr>
<td>Comment and Vote on CDV</td>
<td>All NCs (P-members mandatory)</td>
<td></td>
<td>12 weeks</td>
<td>Part 1 - 2.6.1</td>
</tr>
<tr>
<td>Editing of CDV</td>
<td>Central Office (CO)</td>
<td></td>
<td>12 weeks</td>
<td>AC/21/2012</td>
</tr>
<tr>
<td>Result of Vote on Committee draft (RVC)</td>
<td>TC/SC Secretary (including resolved comments)</td>
<td>Form RVC</td>
<td>12 weeks after close of vote on CDV</td>
<td>Part 1 - 2.6.5</td>
</tr>
<tr>
<td>Action Description</td>
<td>Action by</td>
<td>Time guidelines</td>
<td>Directives (Ed. 2016)</td>
<td></td>
</tr>
<tr>
<td>--------------------------------------------------------</td>
<td>------------------------------------------------</td>
<td>-----------------------------------------------------</td>
<td>---------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>Circulation of New Product Proposal (NP)</td>
<td>TC/SC Secretary</td>
<td>Form NP</td>
<td>Part 1 - 3.1.1.1 &amp; 2.3</td>
<td></td>
</tr>
<tr>
<td>Vote on NP</td>
<td>P-members of TC/SC</td>
<td>4, 8 or 12 weeks</td>
<td>IEC Suppl. Annex SO</td>
<td></td>
</tr>
<tr>
<td>Circulation of Result on Vote for NP (RVN)</td>
<td>TC/SC Secretary</td>
<td>Form RVN</td>
<td>IEC Suppl. – 2.3.6</td>
<td></td>
</tr>
<tr>
<td>Circulate a Committee Draft (optional)</td>
<td>TC/SC</td>
<td>Form CD</td>
<td>Part 1 - 3.1.1.1 &amp; 2.4</td>
<td></td>
</tr>
<tr>
<td>Comments on CD</td>
<td>P-members and O-members of TC/SC</td>
<td>8, 12 or 16 weeks</td>
<td>IEC Suppl. – E.3.1.1 &amp; E.3.1.3</td>
<td></td>
</tr>
<tr>
<td>Development of Draft TS (DTS)</td>
<td>TC/SC Working Group</td>
<td></td>
<td>Part 1 - 3.1.1.1 &amp; 2.4</td>
<td></td>
</tr>
<tr>
<td>French translation of DTS</td>
<td>French NC</td>
<td>1 week or 7 weeks</td>
<td>IEC Suppl. – 3.1.1.1 &amp; 3.1.3</td>
<td></td>
</tr>
<tr>
<td>Circulation of DTS</td>
<td>TC/SC Secretary</td>
<td>Form DTS</td>
<td>Part 1 - 3.1.1.1 &amp; 2.5</td>
<td></td>
</tr>
<tr>
<td>Vote on DTS</td>
<td>All NCs (P-members mandatory)</td>
<td>12 weeks</td>
<td>IEC Suppl. Annex SO</td>
<td></td>
</tr>
<tr>
<td>Result of Vote on DTS (RVDTS)</td>
<td>TC/SC Secretary (including resolved comments)</td>
<td>Form RVDTS</td>
<td>Part 1 - 2.6.5</td>
<td></td>
</tr>
<tr>
<td>Provide final TS to Central Office</td>
<td>TC/SC Secretary</td>
<td>iecstd</td>
<td>Part 1 – 3.1.2</td>
<td></td>
</tr>
<tr>
<td>Editing and Distribution of TS</td>
<td>Central Office</td>
<td></td>
<td>Part 1 - 3.1.3</td>
<td></td>
</tr>
<tr>
<td>Document Maintenance</td>
<td>TC/SC</td>
<td>Form RR</td>
<td>Review 3 years after publication</td>
<td></td>
</tr>
</tbody>
</table>

**Summary of actions and time guidelines for the development of a Technical Specification (TS)**

<table>
<thead>
<tr>
<th>Action Description</th>
<th>Action by</th>
<th>Time guidelines</th>
<th>Directives (Ed. 2016)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Send FDIS to CO for translation and circulation</td>
<td>TC/SC Secretary (Decision with Chair)</td>
<td>Form FDIS</td>
<td>16 weeks after close of vote on CDV</td>
</tr>
<tr>
<td>French translation of FDIS</td>
<td>Central Office (CO)</td>
<td></td>
<td>1 week or 7 weeks max. after receipt of the FDIS</td>
</tr>
<tr>
<td>Editing and circulation of FDIS</td>
<td>Central Office (CO)</td>
<td></td>
<td>12 weeks after FDIS accepted by CO</td>
</tr>
<tr>
<td>Availability of FDIS</td>
<td>TC/SC</td>
<td></td>
<td>33 months after circulation of RVN</td>
</tr>
<tr>
<td>Vote on FDIS</td>
<td>All NCs (P-members mandatory)</td>
<td></td>
<td>6 weeks</td>
</tr>
<tr>
<td>Report of voting on FDIS (RVD)</td>
<td>Central Office prepares and circulates RVD</td>
<td>Form RVD</td>
<td>2 weeks after close of vote on FDIS</td>
</tr>
<tr>
<td>Publication of IS</td>
<td>Central Office (CO)</td>
<td></td>
<td>6 weeks after circulation of RVD</td>
</tr>
<tr>
<td>Availability of International Standard</td>
<td>TC/SC &amp; Central Office</td>
<td></td>
<td>36 months after circulation of RVN</td>
</tr>
<tr>
<td>Maintenance of the International Standard</td>
<td>TC/SC Secretary</td>
<td>Form RR</td>
<td>Project finished in accordance with the stability date</td>
</tr>
</tbody>
</table>

**Interactions with Central Office (CO):**

- **Send FDIS to CO for translation and circulation**
  - TC/SC Secretary (Decision with Chair): Form FDIS
  - Time: 16 weeks after close of vote on CDV
  - Directives: Part 1 - 2.6.6
- **French translation of FDIS**
  - Central Office (CO): Form FDIS
  - Time: 1 week or 7 weeks max. after receipt of the FDIS
  - Directives: SMB Decision 150/20
- **Editing and circulation of FDIS**
  - Central Office (CO): Form FDIS
  - Time: 12 weeks after FDIS accepted by CO
  - Directives: Part 1 - 2.7.1
- **Availability of FDIS**
  - TC/SC: Form FDIS
  - Time: 33 months after circulation of RVN
  - Directives: IEC Suppl. – 2.1.6
- **Vote on FDIS**
  - All NCs (P-members mandatory): Form FDIS
  - Time: 6 weeks
  - Directives: IEC Suppl. - 2.7.1
- **Report of voting on FDIS (RVD)**
  - Central Office prepares and circulates RVD: Form RVD
  - Time: 2 weeks after close of vote on FDIS
  - Directives: Part 1 - 2.7.5
- **Publication of IS**
  - Central Office (CO): Form FDIS
  - Time: 6 weeks after circulation of RVD
  - Directives: Part 1 - 2.8.1
- **Availability of International Standard**
  - TC/SC & Central Office: Form FDIS
  - Time: 36 months after circulation of RVN
  - Directives: IEC Suppl. – 2.1.6
- **Maintenance of the International Standard**
  - TC/SC Secretary: Form FDIS
  - Time: Project finished in accordance with the stability date
  - Directives: IEC Suppl. - 2.9.3.2
### Summary of actions and time guidelines for the development of a Publicly Available Specification (PAS)

<table>
<thead>
<tr>
<th>Action Description</th>
<th>Action by</th>
<th>Time guidelines</th>
<th>Directives (Ed. 2016)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Circulation of Draft PAS (DPAS)</td>
<td>TC/SC Secretary</td>
<td>Form DPAS</td>
<td>AC/48/2007</td>
</tr>
<tr>
<td>Vote on PAS</td>
<td>All NCs (P-members mandatory)</td>
<td>8 weeks</td>
<td>IEC Suppl. Annex SO</td>
</tr>
<tr>
<td>Result of Vote on PAS (RVDPAS)</td>
<td>TC/SC Secretary (including resolved comments)</td>
<td>12 weeks after close of vote on PAS</td>
<td>Part 1 - 2.6.5</td>
</tr>
<tr>
<td>Editing and Distribution of PAS</td>
<td>TC/SC Secretary</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Document Validity</td>
<td>TC/SC</td>
<td>2 years, expendable once to 2 other years</td>
<td>SMB Decision 157/15</td>
</tr>
</tbody>
</table>

### Summary of actions and time guidelines for the development of a Technical Report (TR)

<table>
<thead>
<tr>
<th>Action Description</th>
<th>Action by</th>
<th>Time guidelines</th>
<th>Directives (Ed. 2016)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Circulate a Committee Draft (optional)</td>
<td>TC/SC</td>
<td>Form CD</td>
<td></td>
</tr>
<tr>
<td>Comments on CD</td>
<td>P-members and O-members of TC/SC</td>
<td>8, 12 or 16 weeks as agreed by TC/SC</td>
<td>Part 1 - 3.3.1</td>
</tr>
<tr>
<td>Proposal of Draft Technical Report (DTR)</td>
<td>TC/SC Secretary</td>
<td>Form DTR</td>
<td></td>
</tr>
<tr>
<td>French translation of DTR</td>
<td>French NC</td>
<td>1 week or 7 weeks max. after receipt of the DTR</td>
<td>IEC Suppl – E.3.1.1 &amp; E.3.1.3</td>
</tr>
<tr>
<td>Vote on DTR</td>
<td>P-members</td>
<td>8 weeks</td>
<td>IEC Suppl. Annex SO</td>
</tr>
<tr>
<td>Result of Vote on DTR (RVDTR)</td>
<td>TC/SC Secretary (including resolved comments)</td>
<td>12 weeks after close of vote on DTR</td>
<td>Part 1 - 2.6.5</td>
</tr>
<tr>
<td>Provide final TR to Central Office</td>
<td>TC/SC Secretary</td>
<td>iecstd</td>
<td>Part 1 - 3.3.2</td>
</tr>
<tr>
<td>Editing and Distribution of TR</td>
<td>Central Office</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Document Maintenance / Withdrawal</td>
<td>TC/SC</td>
<td>Form RR</td>
<td>&quot;regularly&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Part 1 - 3.3.3</td>
</tr>
</tbody>
</table>
Good Working Practice Tables

Two blank tables (which are referred to in 1.5 and Annex A) and which will be useful to Project Leaders in preparing drafts will be available at the following link: https://www.iec.ch/dyn/www/f?p=103:227:0:::FSP_ORG_ID:1232,25