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

### Title: Report from Dr Martin Thedens, Chair of the IEC Technical Committee 31- EQUIPMENT FOR EXPLOSIVE ATMOSPHERES

To: Members of the IECEx Management Committee, ExMC

**INTRODUCTION**

This document contains a report from the IEC Technical Committee 31- EQUIPMENT FOR EXPLOSIVE ATMOSPHERES Chair, Dr Martin Thedens, to the 2021 ExMC meeting.

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**INTERNATIONAL ELECTROTECHNICAL COMMISSION**

**TECHNICAL COMMITTEE 31: EQUIPMENT FOR EXPLOSIVE ATMOSPHERES**

**Report from IEC TC 31 to IECEx ExMC Meeting 2020**

**Introduction**

This report covers the activities of IEC TC 31 since the last meeting of IECEx ExMC in September 2020.

**Activities during the past year**

Due to the Corona pandemic, no plenary meetings of TC 31 and it’s SCs were held. The CAG held two online meetings to discuss urgent matters, such as the work of IEC TC 31 AG 55 (Specific Conditions of Use) and how to involve IECEx; or a possible new structure of the IEC 60079-29 series and IEC 62990 series for gas detectors.

Other meetings of Working Groups, Maintenance Teams, Project Teams etc. were held online as well.

**Future TC 31 meetings**

The coming plenary meeting of SC 31M and TC 31 is scheduled for October 2021 as online meetings.

Next face-to-face meetings of Working Groups, Maintenance Teams, Project Teams of TC 31 and it’s SCs are planned for May 2022 in London (UK) followed by a meeting of the TC 31 Chair’s Advisory Group (CAG)

As always, we invite IECEx to make a presentation to these groups as part of the agenda.

**Standards and associated documents issued recently**

The following are documents that have been published over the past 12 months through August 2021:

|  |  |  |  |
| --- | --- | --- | --- |
| **Number** | **Ed.** | **Date** | **Title** |
| IEC 60079-25:2020/COR1:2020 | 3.0 | 2020-10-20 | Explosive atmospheres - Part 25: Intrinsically safe electrical systems |
| IEC 60079-39:2020/COR1:2020 | 1.0 | 2020-10-20 | Explosive atmospheres – Part 39: Intrinsically safe electrical systems |
| IEC 60079-10-1:2020 / IEC 60079-10-1:2020 CMV | 3.0 | 2020-12-18 | Explosive atmospheres – Part 10-1: Classification of areas - Explosive gas atmospheres |
| IEC TS 60079-47:2021 | 1.0 | 2021-02-03 | Explosive atmospheres – Part 47: Equipment protection by 2-wire intrinsically safe ethernet concept (2-WISE) |
| IEC 60079-26:2021 | 4.0 | 2021-02-25 | Explosive atmospheres – Part 26: Equipment with Separation Elements or combined Levels of Protection |
| IEC 62990-2:2021 | 1.0 | 2021-06-04 | Workplace atmospheres – Part 2: Gas detectors – Selection, installation, use and maintenance of detectors for toxic gases and vapours |

**Documents nearing completion**

The following documents were nearing completion (i.e. at FDIS or CDV stage complete and FDIS circulation soon), circulated since September 2020:

|  |  |  |
| --- | --- | --- |
| **Document Number** | **Date of circulation** | **Title** |
| 31G/327/CDV | 2020-11-06 | IEC 60079-11 ED7  Explosive atmospheres – Part 11: Equipment protection by intrinsic safety "i" |
| 31J/312/FDIS | 2021-02-05 | IEC 60079-17 ED6  Explosive atmospheres – Part 17: Electrical installations inspection and maintenance |
| 31/xxx/FDIS | 2021-09-xx | IEC 60079-31 ED3  Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t" |

**Matters likely to be of interest to IECEx**

* New projects of TC 31 and it’s SCs:
  + IEC TS 60079-48 ED1 “Explosive atmospheres – Part 48: Portable Electronic Equipment Suitable for use in Hazardous Areas”
  + ISO/IEC 80079-49 ED1 “Flame arresters – Performance requirements, test methods and limits for use”
  + ISO/IEC 80079-50 ED1 “Explosion venting devices”

**Conclusion**

This report summarizes the more significant events and standard developments of the past year. We welcome your guidance and suggestions for continued cooperation between TC 31 and IECEx.

Dr Martin Thedens

Chair IEC Technical Committee 31