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INTERNATIONAL ELECTROTECHNICAL COMMISSION

Technical Committee 31 Explosive Atmospheres

Report from TC 31 to ISO/TC 197

28 September 2009

This report covers the activities of IEC Committee TC 31 Equipment for Explosives Atmospheres for the past 12 months of possible interest to ISI/IEC 197.

There are three main areas of work related to gas detectors currently occurring:

1. The development of IEC 60079-29-4 Ed. 1.0: Explosive atmospheres - Part 29-4: Gas Detectors - Performance requirements of open path detectors for flammable gases. This is now at FDIS stage.
2. The revision has commenced of IEC 60079-29-2 Explosive atmospheres – Part 29-2: Gas detectors – Selection, installation, use and maintenance of detectors for flammable gases and oxygen to incorporate the open path requirements.
3. The development of the IEC 60079-29-3 Explosive atmospheres - Part 29-3: Gas detectors - Requirements for functional safety of fixed gas detection

There has also been an interpretation sheet issued for IEC 60079-29-1 to clarify the drop test fail criterion in the Subclause 5.4.14.

Regarding, MT60079-10-1: Classification of areas - Explosive gas atmospheres Project: IEC 60079-10-1 Ed. 2.0: Ed.1.0 was published on 2008-12. The new maintenance cycle has not been initiated yet. A preliminary MT meeting was held on 31st of August and 1st of September 2009 in Singapore. The aim of this meeting was to highlight important issues which require modifications and to set the target schedule for the development of Ed. 2.0 of the standard. It is planned to finish the first CD during the meeting scheduled for October 2010 in Seattle. ISO/TC 197 has expressed an interest in this standard and their involvement would be welcome.

The last plenary meeting of TC 31 was held on 20-21 November 2008 in São Paulo, Brazil.

A meeting of the TC 31 Chairman's Advisory Group was held in Windsor, UK on 2 and 3 April 2009.

The next plenary meeting of TC 31 is scheduled for 21-22 November 2009 in Tel Aviv, Israel and the next meeting of CAG will take place in Split, Croatia on 22-23 April 2009.

Standards and associated documents issued in last 12 months:

Number	Edition	Date	Title
IEC 60079-18	3	2009-05	Explosive atmospheres - Part 18: Equipment protection by encapsulation "m"
IEC 60079-10-2 (supersedes IEC 61241-10)	1	2009-04	Explosive atmospheres - Part 10-2: Classification of areas - Combustible dust atmospheres
IEC 60079-18 Corrigendum 1	3	2009-06	Corrigendum 1 - Explosive atmospheres – Part 18: Equipment protection by encapsulation "m"
IEC 60079-26 Corrigendum 1	2	2009-03	Corrigendum 1 - Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga
IEC 60079-10-1	1	2008-12	Explosive atmospheres - Part 10-1: Classification of areas - Explosive gas atmospheres

(supersedes IEC 60079-10)			
IEC 60079-29-1 I-SH 01	1	2009-07	Interpretation sheet 1 - Explosive atmospheres - Part 29-1: Gas detectors - Performance requirements of detectors for flammable gases
IEC 60079-31 (supersedes IEC 61241-1)	1	2008-11	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-0 I-SH 01	5	2008-11	Interpretation sheet 1 - Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-0 I-SH 01	4	2008-11	Interpretation sheet 1 - Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-0 I-SH 01	3	2008-11	Interpretation sheet 1 - Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-1 Corrigendum 1	6	2008-9	Corrigendum 1 - Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"

Standards nearing completion:

Document Number	Date	Title
31/819/FDIS	2009-8-7	IEC 60079-29-4 Ed. 1.0: Explosive atmospheres - Part 29-4: Gas Detectors - Performance requirements of open path detectors for flammable gases
31/794/CDV	2009-2-20	IEC 60079-13 Ed. 1.0: Explosive atmospheres - Part 13: Equipment - protected by pressurized rooms "p"
31/769/CDV	2008-9-5	IEC 60079-20-1 Ed. 1.0: Explosive Atmospheres - Part 20-1: Material characteristics - Gas and vapour classification, test methods and data
31/762/CDV	2008-7-4	IEC 60079-15 Ed. 4.0: Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
31G/186/CDV	2008-9-19	IEC 60079-25 Ed. 2.0: Explosive atmospheres - Part 25: Intrinsically safe systems

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