

Equipment for Potentially Explosive Atmospheres



ETCI TC6 Annual Report 2015

Introduction

TC6 provides the broad national framework for ensuring that the views of manufacturers and users are taken into account in the drafting of European and international standards for equipment for use in potentially explosive atmospheres.

The apparatus covered by this Technical Committee is used primarily by the oil, gas, chemical, plastics, grain, mining and coal industries during production, storage, processing, transportation, distribution and use of the products associated with these industries.

Improved safety in environments where explosive atmospheres may occur is of primary concern but there is also need for uniform operational practices in these areas to promote free trade and economic development.

The standardization work of TC6 supports the [ATEX Directive 94/9/EC](#) concerning equipment and protective systems intended for use in potentially explosive atmospheres and [ATEX Directive 1999/92/EC](#) on minimum requirements for improving the safety and health protection of workers potentially at risk from explosive atmospheres.

The Committee is also responsible for ETCI Publication [ET 105, National Rules for Electrical Installations in Potentially Explosive Atmospheres](#).

International TCs Shadowed by this TC

[IEC TC31](#) Equipment for Explosive Atmospheres

[CLC TC31](#) Electrical Apparatus for Potentially Explosive Atmospheres

Equipment for Potentially Explosive Atmospheres

1. Review of the Year 2015

2015 marked another year of useful activity for TC6.

International/European Standards Development:

The work of IEC TC31 and its SC's has reached a stage of maturity, such that relatively few new standards are being developed and the emphasis is on the maintenance and updating of the existing standards infrastructure. Some IEC TC31 standards are now in their sixth or seven editions. New/revised IEC standards published in 2015 included:

IEC 60079-5:2015 Ed 4.0 Explosive atmospheres - Part 5: Equipment protection by powder filling "q"

IEC 60079-6:2015 Ed 4.0 Explosive atmospheres - Part 6: Equipment protection by liquid immersion "o"

IEC 60079-7:2015 Ed 5.0 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

IEC TS 60079-40:2015 Ed 1.0 Explosive atmospheres - Part 40: Requirements for process sealing between flammable process fluids and electrical systems

ATEX Directive:

The standardization work of CENELEC TC31 is cited in European Directive 94/9/EC (Equipment and protective systems intended for use in potentially explosive atmospheres). The latest list of harmonized European Standards, dated 09.10.2015, is hosted on the European Commission [Europa server](#). The Irish Standard (I.S.) implementation of these European Standards is available for purchase and download from www.standards.ie. Currently 33 CENELEC EN's are listed under the ATEX Directive.

New ATEX Directive:

The new ATEX Directive 2014/34/EU was published in 2014 and is aligned to the New Legislative Framework (NLF). The NLF is designed to reinforce the application and enforcement of existing internal market legislation by improving market surveillance rules, boosting confidence in the conformity assessment of products, clarifying the meaning of CE marking and establishing a toolbox of measures for future legislation. The new ATEX Directive will be applicable from 20 April 2016. The Health and Safety Authority (HSA) is currently working on the [transposition of the new ATEX Directive](#) via national Regulations.

Wiring Rules:

Work on the future revision of ET105:2011 was suspended during the course of the year, pending a final decision on the future of ETCI. In the meantime,

TC6 is exploring opportunities to develop a proposed new publication ET 216 to support the Wiring Rules with practical guidance.

1. TC6 Membership 2015

Mr. N. O’Riordan	CHAIRMAN
Mr. P Henehan	Consultant
Mr. C. Ennis	AECI (outgoing)
Mr. K. Fallon	DPS Engineering and Construction
Mr. N. Ross	GE Sensing
Mr. G. Carroll	RSA Insurance
Mr. M. O’Brien	Hibernian Insurance
Mr. P. Delaney	Health and Safety Authority
Mr. S. Moore	Schering-Plough
Mr. K. Lynch	ESBI Engineering
Mr. B. Curtis	Consultant
Mr. G. Coughlin	Pfizer Ireland
Mr. K. Ennis	AECI (incoming)
Mr. G. Hennessy	Veritex
Mr. B. Abbott	NSAI, Secretary

TC6 wishes to acknowledge with gratitude the tremendous contribution made by Mr. Colm Ennis over many years, and his practical contribution to the evolution of the Wiring Rules for Potentially Explosive Atmospheres, ET105.

2. International Meetings 2015

During the year TC6 members attended a number of IEC international meetings.

Name	International Committee	Meeting Location
N. Ross	IEC/TC31/WG22	Toronto, Canada, March 2015
M. O'Brien	IEC/TC31/SC31J/MT 60079-14	Minsk, Belarus, October 2015
N. Ross	IEC/TC31/WG22 IEC/TC31/AHG46	Minsk, Belarus, October 2015

3. TC’s Involvement with Training During 2015

While a series of ATEX Training courses were run by ETCI Head Office during the course of 2015, ETCI TC6 was not involved in the running of these courses.









4. ETCI Publications Developed by TC6 During 2015

No new TC6 publications were developed during the year. Uncertainty surrounding the future of ETCI, and the future of ETCI deliverables, meant that committee members were not in a position to commit time and resources to a major revision of ET105.

5. Programme for Coming Year

- Participate in standardization work of IEC TC31 and CENELEC TC31, including, where possible, attendance at international meetings and Maintenance Team (MT) meetings.
- Continue to develop membership to best reflect the interest of industry and users in Ireland.
- Advance work on proposed ET216 and review position of ET105.

The IEC TC31 work programme for 2016 includes the revision of IEC 60079-0 and a new Technical Specification (TS) for equipment in adverse service conditions:

Project Reference	Document Reference	Init. Date	Current Stage	Next Stage	Working Group	Project Leader	Fcst. Publ. Date
IEC 60079-0 Ed. 7.0 Explosive atmospheres - Part 0: Equipment - General requirements	31/1197/CD  1455 kB	2014-11	CDM 2015-09	A3CD 2015-11	WG 22	William Lawrence	2017-11
IEC 60079-13 Ed. 2.0 Explosive atmospheres - Part 13: Equipment protection by pressurized room "p" and artificially ventilated room "v"	31/1129/CDV  376 kB  488 kB	2013-12	ADIS 2014-11	DEC 2015-05	MT 60079-13	Dalia El-Tawy	2016-05
IEC 60079-29-1 Ed. 2.0 Explosive atmospheres - Part 29-1: Gas detectors - Performance requirements of detectors for flammable gases	31/1173/CDV  453 kB  546 kB	2011-07	ADIS 2015-07	DEC 2015-10	MT 60079-29	Jon Miller	2016-03
IEC 62990-1 Ed. 1.0 Workplace Atmospheres - Part 1 Gas detectors - Performance requirements of detectors for toxic gases	31/1192/CD  735 kB	2015-03	CDM 2015-07	A2CD 2015-11	JWG 45	Jon Miller	2018-03
IEC/TS 60079-32-1 am1 Ed. 1.0 Amendment 1: Explosive atmospheres - Part 32-1: Electrostatic hazards, guidance	31/1207/CD  176 kB	2014-08	ACDV 2015-10	CCDV 2016-07	JWG 29	Ulrich Von Pidoll	2017-07
IEC/TS 63034 Ed. 1.0 Explosive atmospheres - Equipment in adverse service conditions	31/1208/NP  311 kB	2015-10	ANW 2015-10	1CD 2016-10	WG 39	A. Zalogin / W. Jun	2018-02
PWI 31-01 Ed. 1.0 Oxygen Gas Detection Performance			PWI 2013-10		MT60079-29		

6. ETCI TC6 Meetings 2015

ETCI TC6 held five meetings in 2015

DATE	VENUE
23 January 2015	HSA, Raheen, Limerick
16 April 2015	ETCI Head Office
18 June 2015	ETCI Head Office
10 September 2015	ETCI Head Office
3 December 2015	ETCI Head Office



Meeting of ETCI TC6 held at Health and Safety Authority, Limerick on 23 January 2015, I to r, Niall Ross, Padraig Delaney, Ken Lynch.



Meeting of ETCI TC6 held on 16 April 2015



The Chairman, Noel O'Riordan prepares for the June 2015 meeting of ETCI TC6



Meeting of ETCI TC6, 10 September 2015

7. Further Information on IEC TC31/CLC TC31

	IEC TC31	CLC TC31
Committee Scope	Link	Link
Publications	Link	Link
Work Programme	Link	Link
Working Documents	Link	Link
Documents for Vote	Link	Link