



NSAI

ANNUAL REPORT 2022

NSAI TECHNICAL COMMITTEES
(NSAI/ETC/TC 06 "EQUIPMENT
FOR POTENTIALLY EXPLOSIVE
ATMOSPHERES ")

Contents

1	Chairman's Statement	3
2	Introduction	3
3	Scope of TC.....	4
4	Structure and Membership	5
4.1	Structure	5
4.2	Members	5
4.2.1	Members NSAI/ETC/TC 06/SC 01	5
5	Summary of 2022 Activities	6
5.1	National	6
5.1.1	Meetings	6
5.1.2	National Work.....	7
5.2	International/Regional	7
5.2.1	Meetings	7
5.2.2	International/Regional Work	8
5.2.3	International/Regional Standards Reviewed	8
5.2.4	International/Regional Voting Results	9
5.3	Regulatory Development/Update	10
6	Irish Publications/Reviews.....	10
6.1	Publications	10
6.2	Reviews	10
7	Work programme for 2023 onwards	10
8	Additional Information	11

1 Chairman's Statement

Chair of NSAI/ETC/TC 06:

The NSAI/ETC/TC 06 committee held four full meetings virtually during 2022. A further four remote meetings were held by the NSAI/ETC/TC 06/SC 01 sub-committee for non-electrical equipment in potentially explosive atmospheres together with the various working groups for the "ATEX Delivery Guide" – (Health and Safety Authority.). The members of NSAI/ETC/TC 06/SC 01 sub-committee and the working groups of the "ATEX Delivery Guide" have contributed a great deal of time and effort and are to be congratulated for their achievements to date.

The work of IEC/TC 31/SC 31J/MT60079-14 (one of NSAI/ETC/TC 06 areas of primary focus) is nearing completion for Edition 6 of the Standard. A number of NSAI/ETC/TC 06 members attended 2-hour virtual meetings throughout the year and the draft CDV Ed. 6 Final, was issued at the end of 2022 with publication scheduled for 2023.

The primary focus of the committee is on IEC/TC 31/SC 31J/MT60079-14, MT60079-17, MT60079-19 and IEC/TC 31/PT 60079-44 with secondary focus on other (Maintenance Teams) MTs and (Project Teams) PTs, as listed below.

Several Work Groups completed their work during 2022 as listed in 5.1 below with other Work Groups formed in 2022. The work of these groups will continue during 2023 and the contribution of the committee members is greatly appreciated. The membership of NSAI/ETC/TC 06 increased in 2022 and the number of members participating in the work of the committee continues to increase.

None of the NSAI/ETC/TC 06 committee's achievements during 2022 would have been possible without the expert guidance of our secretary Amanda-Jane Gainford who, by her advice and professionalism, has provided the motivation for even more accomplishments in 2023.

Michael O'Brien.

Chair of NSAI/ETC/TC 06/SC01:

2022 has proven to be a fruitful year for NSAI/ETC/TC 06/SC 01 after only really getting started at the beginning of 2021. The group has met four times during this year and participants are to be congratulated for their continued dedication and hard work. Our focus continues to be primarily on CEN/TC 305 and with particular attention paid to the more active Working Groups, 3 and 6. The trend of standards being developed at the ISO/IEC level continues this year with various EN standards now becoming themes for ISO/IEC equivalents. Many of our members actively participate in IEC/TC 31/SC 31M and the associated Working Groups meaning that we continue to be well informed of developments prior to introduction to CEN.

As usual, thanks must be given to our secretary, Amanda-Jane Gainford, whose hard work contributes greatly to the achievements of NSAI/ETC/TC 06/SC 01.

Damien Hennessy

2 Introduction

The standardization work of NSAI/ETC/TC 06 supports the ATEX Directive 2014/34/EU 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.

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

3 Scope of TC

NSAI/ETC/TC 06 is responsible for coordinating the development of standards for equipment for use where there is a hazard due to the possible presence of explosive atmospheres of gases, vapors, mists, or combustible dusts. NSAI/ETC/TC 06 members are active participants in the international standards work of IEC/TC31 "Equipment for explosive atmospheres", which was established over 60 years ago, and CENELEC/TC 31. IEC and CENELEC standards cover the life cycle of equipment for use in potentially explosive atmospheres through design, manufacture, installation, maintenance, and repair. The area of potentially explosive atmospheres is subject to two EU Directives.

- Directive 2014/34/EU which covers equipment and protective systems and
- Directive 1999/92/EC which covers the safety and health protection of workers potentially at risk.

The committee mirrors the following international committees:

Committee Name	Committee Title
IEC/TC 31	"Equipment for explosive atmospheres",
CLC/TC 31	"Electrical apparatus for potentially explosive atmospheres"

In Q1 2021 a sub-committee of NSAI/ETC/TC 06 was formed to look at Potentially explosive atmospheres in the nonelectrical area.

NSAI/ETC/TC 06/SC 01 supports the development of national and international standards in the areas of potentially explosive atmospheres & mirrors the work of CEN/TC 305.

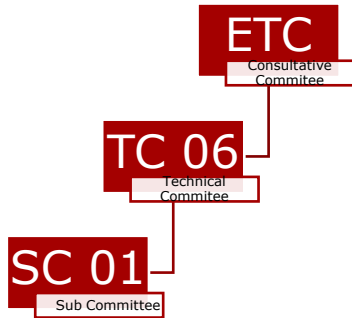
The Sub-committee mirrors the following international committees:

Committee Name	Committee Title
CEN/TC 305	Potentially explosive atmospheres - Explosion prevention and protection"

4 Structure and Membership

4.1 Structure

The Figure below illustrates the structure of the Committee:



4.2 Members

The list below are the members for the year:

Organisation	Role
Aviva Insurance DAC	National committee member
Baker Hughes	National committee member
BMS	National committee member
Consultant	National committee member
DPS	National committee member
Ennis Bros. & AECl	National committee member
FM Approvals	National committee member
Harrington Electrical	National committee member
HSA	National committee member
Independent Specialist	National committee member
Henkel Ireland	National committee member
Johnson & Johnson	National committee member
Jones Engineering	National chairperson
NSAI	National secretary
Pfizer	National committee member
Project Management Group	National committee member
SK biotek Ireland	National committee member
Sulzer	National committee member
Veolia Energy Services.	National committee member
Veritex	National committee member
H&MV Engineering Thermo Fisher Scientific	National committee member
PM Group	National committee member

4.2.1 Members NSAI/ETC/TC 06/SC 01

Organisation	Role
BS & B Innovation	National chairperson
BS & B Safety Systems Ltd	National committee member
Consultant	National committee member

ESB	National committee member
ESBI	National committee member
Explosion Hazards	National committee member
FM Approvals	National committee member
Jones Engineering	National committee member
NSAI	National secretary
Veolia Energy Services.	National committee member

5 Summary of 2022 Activities

5.1 National

The Committee met four times in 2022 using MS Teams meetings. Overall, the number of members participating in the work of the committee continues to increase.

The subcommittee that was formed to look at an ATEX guide has launched a webpage on the HSA website. [ATEX Delivery Guide - Health and Safety Authority \(hsa.ie\)](https://www.hsa.ie/ATEX-Delivery-Guide). The subcommittee met on their own time to develop this work.

The committee agreed to continue this work and several groups were formed.

- Functional Safety Group
- Static Group
- Earthing Group
- Instrumentation Group
- EPD Group – Work Complete
- Inspection & Testing Group
- S.I. 630:2019 & S.I. 631:2019 Group – Work Complete
- Dust – Work Complete
- Risk

The Dust and Risk committees were formed in 2022.

The EPD Group have completed their work and their work will be published on the HSA website in due course.

The S.I. 630 & I.S. 631 group have finished their review. No updates required.

The Dust group have completed their review and the felt that duct is covered well in the EPD document, so no additional documentation is required.

Several of the committee members attended WG, PT and MT meetings throughout the year.

The primary focus of the committee is on IEC/TC 31/SC 31J/MT60079-14, MT60079-17 and MT60079-19 with secondary focus on other MTs and PTs.

5.1.1 Meetings

Committee members attended the following NSAI national meetings:

Meeting No.	Date	Minutes Reference
1	14 th January 2022	N0970
2	8 th April 2022	N0981
3	9 th September 2022	N0993

4	18 th November 2022	N1004
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Sub - Committee members attended the following NSAI national meetings:

Meeting No.	Date	Minutes Reference
1	25 th January 2022	N0041
2	12 th April 2022	N0044
3	6 th September 2022	N0050
4	22 nd November 2022	N0054

5.1.2 National Work

A Groups formed to generate content for the ATEX Guide met on their own time outside of NSAI.

The NSAI dropbox on livelink is being used to coordinate this work.

5.2 International/Regional

5.2.1 Meetings

Committee members attended international CENELEC (CLC) and IEC meetings virtually.

Committee Name	Date	Attendees
CLC/TC 31 Plenary	2022/09/16	AJG, MC
IEC/TC 31/Plenary	2022/11/04	NR
IEC/TC 31/SC 31G Plenary		
IEC/TC 31/ SC 31J Plenary	2022/11/03	NR
IEC/TC 31/ SC 31M Plenary	2022/11/03	NR
IEC/TC 31/WG 22	2022/11/01	NR
	2022/11/02	NR
	2022/10/30	NR
	2022/05/16	MC
	2022/05/17	MC
IEC/TC 31/MT 60079-1	2022/10/28	NR
	2022/10/29	NR
	2022/05/06	NR
	2022/04/12	TM, AM
	2022/04/14	NR
	2022/04/19	AM
	2022/04/21	AM, NR
2022/03/25	MC, NR	
IEC/TC 31/MT 60079-46	2022/10/27	NR
IEC/TC 31/PT 60079-44	2022/10/12	AM
IEC/TC 31/SC 31 M/WG 1	2022/10/28	NR
IEC/TC 31/60079-18	2022/10/30	NR
	2022/10/31	NR
IEC/TC 31/SC 31J/MT 60079-14	2022/12/12	MO'B, TM, AM

	2022/12/13 2022/12/14 2022/12/15 2022/07/26 2022/07/27	MO'B, TM, AM MO'B, TM, AM TM, AM AM AM
IEC/TC 31/SC 31M	2022/11/03	NR
IEC/TC 31/SC 31M PT 80079-4		
IEC/TC 31/SC 31G/MT 60079-11	2022/03/03 2022/02/23	AM AM
IEC/TC 31/AG 55	2022/11/02	NR
IEC/TC 31/MT 60079-29	2022/11/02	NR
IEC/TC 31/MT 60079-7	2022/11/02	NR
IEC/TC 31/SC31M/MT 80079-34	2022/10/31	NR

Sub Committee members attended international CEN virtually.

Committee Name	Date	Attendees
CEN TC 305 Plenary	2022/09/29	AJG, DH, MR, DB, PO'S
CEN TC 305/WG 6	2022/01/19 2022/05/13 2022/09/05	DH DH DH
CEN TC 305/WG 3	2022/02/09 2022/06/08 2022/11/16	DM, DH DM, DH DM, DH
CEN TC 305/WG 1		

5.2.2 International/Regional Work

The committee worked on developing an ATEX Verification Guidance hosted by the HSA for use by people working in Explosive Atmospheres. The website is live but is still under development.

5.2.3 International/Regional Standards Reviewed

The committee are very active at IEC level and break the work down into primary and secondary focus. There are members of the committee sitting on the following IEC committees which are both primary & secondary focus of the committee.

This is the primary focus list:

IEC/TC 31/PT 60079-44	Explosive atmospheres - Personal Competence
IEC/TC 31/SC 31 J/MT 60079-14	Maintenance of IEC 60079-14 Ed. 4.0: Explosive atmospheres - Part 14: Electrical installations design, selection and erection
IEC/TC 31/SC 31 J/MT 60079-17	Maintenance of IEC 60079-17 Ed. 4.0: Explosive atmospheres - Part 17: Electrical installations inspection and maintenance
IEC/TC 31/SC 31 J/MT 60079-19	Maintenance of IEC 60079-19 Ed. 2.0: Explosive atmospheres - Part 19: Equipment repair, overhaul and reclamation

This secondary focus list:

IEC/TC 31/WG 42	Safety Devices Related to Explosion Risk
IEC/TC 31/MT 60079-29	Maintenance of IEC 60079-29 series Gas Detectors

IEC/TC 31/MT60079-1	Maintenance of IEC 60079-1 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC/TC 31/MT60079-33	Maintenance of IEC 60079-33 Explosive atmospheres - Part 33: Equipment protection by special protection 's'
IEC/TC 31/PT 60079-46	Explosive atmospheres – Equipment assemblies
IEC/TC 31/WG 22	Responsible for MT 60079-0, maintenance of IEC 60050.426 and other specific tasks assigned by TC 31
IEC/TC 31/WG 39	Adverse Service Conditions
IEC/TC 31/WG 47	EPL Gc equipment
IEC/TC 31 /SC 31 G/MT 60079-11	Maintenance of IEC 60079-11 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC/TC 31 /SC 31 J/MT 60079-10-1	Maintenance of IEC 60079-10-1 Ed. 1.0: Explosive atmospheres - Part 10-1: Classification of areas - Explosive gas atmospheres
IEC/TC 31 /SC 31 M/MT 80079-34	ISO/IEC 80079-34 Ed. 1.0: Explosive atmospheres - Application of quality systems for electrical and non-electrical equipment
IEC/TC 31 /SC 31 M/MT 80079-38	ISO/IEC 80079-38 Explosive Atmospheres - Part 38: Equipment and components in
IEC/TC 31 /SC 31 M/PT 80079-41	Development of ISO/IEC 80079-41/Ed1: Explosive atmospheres - Part 41: Reciprocating internal combustion engines
IEC/TC 31 /SC 31 M/WG 1	Non-electrical equipment

This is the primary focus list for NSAI/ETC/TC 06/SC 01:

CEN/TC 305	Potentially explosive atmospheres - Explosion prevention and protection
CEN/TC 305/WG 3	Devices and systems for explosion prevention and protection
CEN/TC 305/WG 6	Flame arresters

5.2.4 International/Regional Voting Results

The committee have actively voted on 13 documents in 2022 and have submitted 7 sets of comments.

Active votes were broken down into 11 IEC documents & 2 CENELEC documents.

Body	Vote Reference	Comments Submitted	WIID	Decision
CLC	FprEN IEC 60079-11:2022	No	65046	Approve
CLC	prEN IEC 60079-2:2022	No	67788	Approve
IEC	31J/317/CD	Yes		Approve
IEC	31/1640/Q	Yes		Approve
IEC	31/1635/NP	No		Approve
IEC	31/1641/AC	No		Abstain
IEC	31/1665/Q	Yes		Approve
IEC	31/1668/Q	Yes		Approve
IEC	31/1636/CDV	No		Approve
IEC	31G/353/Q	Yes		Approve
IEC	31G/357/Q	Yes		Approve
IEC	31G/352/FDIS	No		Approve

IEC	31/1609/Q	Yes		Approve
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The sub-committee vote on all documents at CEN level using a default voting strategy.

The committee actively voted on 10 documents in 2022 and have submitted 1 set of comments.

Body	Vote Reference	Comments Submitted	WIID	Decision
CEN	FprEN 17624	No	63937	Approve
CEN	Draft Decision 418/2022 - Adoption of a PWI EN 14460 rev	No		Approve
CEN	Draft Decision 419/2022 - Adoption NWI EN ISO/IEC 80079-50	No		Approve
CEN	Draft Decision 417/2022 - Activation PWI 00305163 + subm ENQ	No		Approve
CEN	Call for experts CLC/TC 31/WG 23 "Marking"	No		Approve
CEN	prEN 13237	Yes	68766	Approve
CEN	prEN ISO/IEC 80079-49	No	74349	Approve
CEN	EN 14034-1:2004+A1:2011	No		Abstain
CEN	Draft Decision C428/2022 - NWIP Amendment of EN 1127-1:2019	No		Approve
ISO	FprCEN/TR 17838	No		Approve

5.3 Regulatory Development/Update

The committee reviewed of the following Statutory Instruments and decided no changes required at this time.

- [S.I. No. 630/2019](#) - Dangerous Substances (Flammable Liquids and Fuels Retail Stores) Regulations, 2019
- [S.I. No. 631/2019](#) - Dangerous Substances (Flammable Liquids and Fuels Distribution and Commercial Supply Stores) Regulations, 2019

6 Irish Publications/Reviews

6.1 Publications

The Committee did not publish any deliverables this year, but they did launch a webpage on the HSA website. [ATEX Delivery Guide - Health and Safety Authority \(hsa.ie\)](#).

6.2 Reviews

No reviews were carried out this year.

7 Work programme for 2023 onwards

The focus of the committee shall be on contributing to the IEC 60079 series of standards being developed at European and International level by CENELEC and IEC.

NSAI/ETC/TC 06/SC 01 will contribute to IEC 80079 series of standards being developed at European and International level by CENELEC and IEC.

The committee shall continue the work on the production of an ATEX Verification Guidance website hosted by the HSA for use by people working in Explosive Atmospheres. The committees several groups will continue to develop this work. The groups are listed below:

- Functional Safety Group
- Static Group
- Earthing Group
- Instrumentation Group
- Inspection & Testing Group
- Risk

Attendance at relevant MT, WG and PT meetings shall be divided among the TC members depending on availability.

It is planned to have 4 NSAI/ETC/TC 06 & 4 NSAI/ETC/TC 06/SC 01 meetings in 2023.

8 Additional Information

No additional information.