



**NSAI**

# ANNUAL REPORT 2023

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

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# 1 Chairman's Statement

## Chair of NSAI/ETC/TC 06:

The NSAI/ETC/TC 06 committee held four full meetings virtually during 2023. A further three 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 earlier in the year and the CDV Ed. 6 Final, was issued in June 2023. The work of IEC/TC 31/SC 31J/MT60079-17 (one of NSAI/ETC/TC 06 areas of primary focus) is completed for Edition 6 of the Standard, and the IEC Standard was published in December 2023.

The primary focus of the committee is on IEC/TC 31/SC 31J/MT60079-14, MT60079-17, MT60079-19, IEC/TC 31/PT 60079-44 and CLC TC31/WG 23 with secondary focus on other (Maintenance Teams) MTs and (Project Teams) PTs, as listed below.

Several Work Groups completed their work during 2023 as listed in 5.1 below with other Work Groups formed in 2023. The work of these groups will continue during 2024 and the contribution of the committee members is greatly appreciated. The membership of NSAI/ETC/TC 06 increased in 2023 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 2023 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 2024.

Michael O'Brien. (Chair of NSAI ETC TC 06.)

## Chair of NSAI/ETC/TC 06/SC01:

NSAI/ETC/TC 06/SC 01 has held three virtual meetings during 2023. In addition to our work in the NSAI/ETC/TC 06/SC 01, our members continue to actively participate in various CEN TC 305 Working and Ad-Hoc Groups to assist in the creation, development and revision of new and existing standards. NSAI/ETC/TC 06/SC 01 has added three new members to our ranks to further widen our expertise and to enable us to monitor and participate in more Working Groups and their deliverables.

For 2024, the group's focus will continue to remain primarily on the deliverables of Working Group 3. However, with our newest additions, added focus is expected to be given to various projects falling under the remit of Working Groups 1, 2 and 4. The upcoming introduction of both the Artificial Intelligence and Cyber Resilience Acts will have much impact on the work of TC305 and will necessitate a more collaborative approach with other Technical Committees such as CLC TC 31 in the future.

Thanks, must be given again to our secretary, Amanda-Jane Gainford, without which, none of this work would be possible.

Damien Hennessy (Chair of NSAI ETC TC 06 SC 01.)

## 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
<b>IEC/TC 31</b>	"Equipment for explosive atmospheres",
<b>CLC/TC 31</b>	"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.

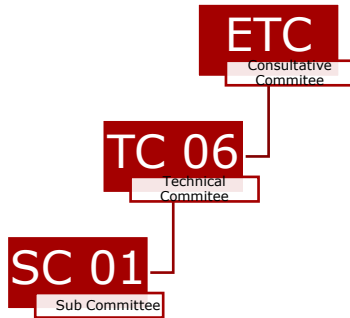
NSAI/ETC/TC 06/SC 01 mirrors the following international committees:

Committee Name	Committee Title
<b>CEN/TC 305</b>	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

#### 4.2.1 Members NSAI/ETC/TC 06

The list below are the members for the year:

Organisation	Role
<b>AECI</b>	National committee member
<b>Analog</b>	National committee member
<b>Aviva Insurance DAC</b>	National committee member
<b>Baker Hughes</b>	National committee member
<b>BMS</b>	National committee member
<b>Consultant</b>	National committee member
<b>Donal Keane Ltd</b>	National committee member
<b>Ennis Bros.</b>	National committee member
<b>FM Approvals</b>	National committee member
<b>GE Vernona</b>	National committee member
<b>Harrington Electrical</b>	National committee member
<b>HSA</b>	National committee member
<b>Independent Specialist</b>	National committee member
<b>Intel</b>	National committee member
<b>Jacobs Engineering Group</b>	National committee member
<b>Johnson &amp; Johnson</b>	National committee member
<b>Jones Engineering</b>	National chairperson
<b>Jones Engineering</b>	National committee member
<b>NSAI</b>	National secretary
<b>Pfizer</b>	National committee member
<b>Project Management Group</b>	National committee member
<b>SK biotek Ireland</b>	National committee member
<b>Sulzer</b>	National committee member
<b>Veolia Energy Services.</b>	National committee member
<b>Veritex</b>	National observer
<b>Ward and Burke Water Ltd</b>	National committee member
<b>PM Group</b>	National committee member

## 4.2.2 Members NSAI/ETC/TC 06/SC 01

2023 saw several new members joining the committee.

Organisation	Role
<b>BS &amp; B Innovation</b>	<b>National chairperson</b>
<b>BS &amp; B Safety Systems Ltd</b>	National committee member
<b>Consultant</b>	National committee member
<b>ESB</b>	National committee member
<b>ESBI</b>	National committee member
<b>Explosion Hazards</b>	National committee member
<b>FM Approvals</b>	National committee member
<b>Jacobs Engineering Group Ltd</b>	National committee member
<b>Jones Engineering</b>	National committee member
<b>NSAI</b>	<b>National secretary</b>
<b>Occupli</b>	National committee member
<b>Veolia Energy Services.</b>	National committee member
<b>Ward and Burke Water Ltd</b>	National committee member

## 5 Summary of 2023 Activities

### 5.1 National

The Committee met four times in 2023 using MS Teams meetings. Overall, the number of members participating in the work of the committee continues to increase.

The working groups which were formed in 2022, and launched the webpage on the HSA website continued working towards populating this website further. [ATEX Delivery Guide - Health and Safety Authority \(hsa.ie\)](https://www.hsa.ie). These working groups 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 EPD Group have completed their work in 2022 however their work has still to be published on the HSA website. It is hoped that it will be published in 2024.

The S.I. 630 & I.S. 631 group have finished their review in 2022. No updates required.

The Dust group have completed their review in 2022 and the felt that dust 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.

The NSAI ETC TC 06 SC 01 Committee met 3 times in 2023. They continue to follow the work of CEN TC 305 and contribute actively to any documents open for vote and/or comment. Committee members attended several working group meetings throughout the year and the Chair travelled to Rome for the CEN TC 305 Plenary meeting.

## 5.1.1 Meetings

Committee members attended the following NSAI national meetings:

Meeting No.	Date	Minutes Reference
1	2023-03-03	<a href="#">N1013</a>
2	2023-06-02	<a href="#">N1019</a>
3	2023-09-08	<a href="#">N1025</a>
4	2023-12-01	<a href="#">N1031</a>

NSAI ETC TC 06 SC 01 members attended the following NSAI national meetings:

Meeting No.	Date	Minutes Reference
1	2023-03-28	<a href="#">N0058</a>
2	2023-09-05	<a href="#">N0066</a>
3	2023-11-29	<a href="#">N0069</a>

## 5.1.2 National Work

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

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

## 5.2 International/Regional

### 5.2.1 Meetings

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

Committee Name	Date	Attendees
CLC/TC 31 Plenary	2023/09/06	1
IEC/TC 31/Plenary	2023/11/10	1
IEC/TC 31/SC 31G Plenary		
IEC/TC 31/ SC 31J Plenary	2023/11/09	1
IEC/TC 31/ SC 31M Plenary	2023/11/09	1
IEC/TC 31/WG 22	2023/10/30 - 2023/11/10	4
IEC/TC 31/WG 32	2023/10/30 - 2023/11/10	1
IEC/TC 31/MT 60079-1	2023/10/30 - 2023/11/10	1
IEC/TC 31/MT 60079-26	2023/10/30 - 2023/11/10	1
IEC/TC 31/MT 60079-46	2023/10/30 - 2023/11/10	1
IEC/TC 31/PT 60079-44		
IEC/TC 31/SC 31 M/WG 1		

IEC/TC 31/60079-18		
IEC/TC 31/SC 31J/MT 60079-14		
IEC/TC 31/SC 31M		
IEC/TC 31/SC 31M PT 80079-4		
IEC/TC 31/SC 31G/MT 60079-11	2023/10/30 - 2023/11/10	1
IEC/TC 31/AG 55	2023/10/30 - 2023/11/10	1
IEC/TC 31/MT 60079-29		
IEC/TC 31/MT 60079-7		
IEC/TC 31/SC31M/MT 80079-34	2023/05/31 (?)	1
IEC/TC 31/SC31M/MT 80079-34	2023/11/??	1

NSAI ETC TC 06 SC 01 members attended international CEN virtually.

Committee Name	Date	Attendees
CEN TC 305 Plenary	#29 <sup>th</sup> - 2023/10/04-05	DH
CEN TC 305/WG 3	#49 <sup>th</sup> - 2023/06/01 #48 <sup>th</sup> - 2023/03/15-16	DH, DB, MR DH, DB, MR
CEN TC 305/WG 4	#47 <sup>th</sup> -2023/09/12 #46 <sup>th</sup> - 2023/06/23 #45 <sup>th</sup> - 2023/03/24 #44 <sup>th</sup> - 2023/02/16-17	
CEN TC 305/WG 6	#17 <sup>th</sup> -2023/01/26	DH
CEN TC 305/WG 1		
CEN TC 305/WG 2	#60 <sup>th</sup> - 2023/05/11-12	Nobody following

## 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/WG 42	Safety Devices Related to Explosion Risk
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
CLC TC 31/WG 23	Marking



This secondary focus list:

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/WG 1	Non-electrical equipment

The primary focus for NSAI/ETC/TC 06/SC 01 are:

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 4	Terminology and methodology
CEN/TC 305/WG 6	Flame arresters
CEN/TC 305/WG 1	Test methods for determining the flammability characteristics of substances

## 5.2.4 International/Regional Voting Results

NSAI/ETC/TC 06 vote on all documents at IEC and CENELEC documents using a default voting strategy. The committee have actively voted on 13 documents in 2023 and have submitted 11 sets of comments.

Active votes were broken down into 12 IEC documents & 1 CENELEC documents.

IEC/TC 31: Ireland has actively voted 2 times in 2023.

IEC/TC 31G: Ireland has actively voted 2 times in 2023.

IEC/TC 31M: Ireland has actively voted 4 times in 2023.

IEC/TC 31J: Ireland has actively voted 4 times in 2023.

CLC/TC 31: Ireland has actively voted 1 time in 2023.

Body	Vote Reference	Comments Submitted	Decision	WIID
IEC	31J/333/Q	Yes	Approve	
IEC	31/1669/CD	Yes	Approve	
IEC	31G/368/Q	Yes	Approve	
IEC	31M/187/Q	Yes	Approve	
IEC	31M/189/Q	Yes	Approve	
IEC	31J/341/Q	Yes	Approve	
IEC	31J/335/CDV	No	Approve	
CLC	prEN IEC 60079-14:2023	No	Approve	71031
IEC	31M/194/DC	Yes	Approve	
IEC	31G/378/Q	Yes	Approve	
IEC	31/1705/Q	Yes	Approve	
IEC	31J/345/FDIS	Yes	Approve	
IEC	31M/212/FDIS	Yes	Approve	

NSAI/ETC/TC 06/SC 01 vote on all documents at CEN level using a default voting strategy.

The committee actively voted on 18 documents in 2023.

Body	Vote Reference	Comments Submitted	WIID	Decision
CEN	Draft Decision 429/2022 Confirmation EN 14034-1:2004+A1:2011	No	Approve	
CEN	Draft Decision C432/2023 - tolerance request for prEN 14983	No	Approve	
CEN	Draft Decision 430/2022 - Adoption of prEN 14373:2021/AMD 1	No	Approve	
CEN	Re-appointment of CEN/TC 305 Chairperson	No	Approve	
CEN	Draft Decision C431/2023 - Adoption of NWIP prEN 15089	No	Approve	
CEN	prEN 14986	No	Abstain	74737
CEN	Draft Decision C435/2023 - Activation of PWI 00305166	No	Approve	
CEN	EN 15233:2007	No	Revise	23055
CEN	prEN ISO/IEC 80079-41	No	Abstain	66531
CEN	Draft Decision C437/2023 - Adoption of NWIP EN 16447	No	Approve	
CEN	Draft Decision C439/2023 - Confirmation of EN 15233:2007	No	Approve	
CEN	Draft Decision C440/2023 - Confirmation of EN 1839:2017	No	Approve	
CEN	Draft Decision C 438/2023 - Adoption of NWIP Rev. EN 1127-1	No	Approve	
CEN	Draft Decision C441/2023 - Liaison with IEC/TC 44 Actions on this ballot	No	Approve	
CEN	Draft Decision C442/2023 - Liaison with ISO/TC 199	No	Approve	
CEN	EN 14373:2021/prA1	No	Approve	77640
CEN	EN 17077:2018	No	Abstain	
CEN	FprEN ISO/IEC 80079-49	No	Approve	

## 5.3 Regulatory Development/Update

The committee did not review any regulatory developments.

## 6 Irish Publications/Reviews

### 6.1 Publications

The Committee did not publish any deliverables this year, but continued to develop content for the HSA website. [ATEX Delivery Guide - Health and Safety Authority \(hsa.ie\)](https://www.hsa.ie).

### 6.2 Reviews

No reviews were carried out this year.

## 7 Work programme for 2024 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.

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.

NSAI/ETC/TC 06/SC 01 will contribute to the standards being developed at European and International level by CEN and IEC.

Attendance and/or monitoring of the below Working Groups is planned for 2024 depending on member availability:

CEN/TC 305/WG 1 "Test methods for determining the flammability characteristics of substances".

CEN/TC 305/WG 2 "Equipment for use in potentially explosive atmospheres".

CEN/TC 305/WG 3 "Devices and systems for explosion prevention and protection".

CEN/TC 305/WG 4 "Terminology and Methodology".

CEN/TC 305/WG 5 "Equipment and components in underground mines and reciprocating internal combustion engines for potential explosive atmospheres".

CEN/TC 305/WG 6 "Flame arresters".

IEC/TC 31/SC 31M/PT 80079-50 "Explosion venting devices".

IEC/TC 31/SC 31M/WG 2 "Performance requirements, test methods and limits for use for flame arresters"

It is planned to have three NSAI/ETC/TC 06/SC 01 meetings in 2024.

## 8 Additional Information

No additional information.