



**NSAI**

# ANNUAL REPORT 2020

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

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## 1 Chairman's Statement

2019 ended on a particularly sad note for the members of the NSAI/ETC/TC 06 Committee with the passing of our friend and colleague Noel O'Riordan on December 2<sup>nd</sup>. Noel's lifetime of dedication to standardisation both nationally and internationally will never be forgotten and he was a mentor and inspiration to us all. R.I.P.

The NSAI/ETC/TC 06 committee had a change of secretary during 2020 when Amanda-Jane Gainford took over the role from Noleen Campbell. The committee owes a debt of gratitude to Noleen who, through her professionalism and expertise, facilitated a smooth transition from ETCI to NSAI to the benefit of the whole committee. Amanda-Jane has seamlessly guided the NSAI/ETC/TC 06 committee through what has been a very difficult year for everyone, to a position of great enthusiasm for the work yet to be done.

The NSAI/ETC/TC 06 committee held three full meetings during 2020 with a face to face meeting in February and subsequent MS Teams meetings. Further remote meetings were held by the various working groups for the "ATEX Delivery Guide" – (Health and Safety Authority.)

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 Maintenance Teams (MT) and Projects Teams (PT), as listed below.

## 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/TC6 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.

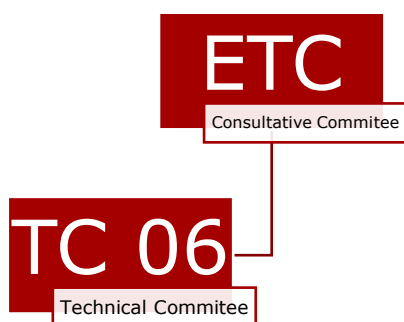
The committee mirrors the following international committees:

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

## 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:

Name	Organisation	Role
<b>Amanda-Jane Gainford</b>	(NSAI)	<b>National secretary</b>
<b>Anthony Moore</b>	(Henkel Ireland)	National committee member
<b>Brian Curtis</b>	(Veolia Energy Services. )	National committee member
<b>Darragh Fisher</b>	(Project Management Group)	National committee member
<b>Denis Lane</b>	(Thermo Fisher Scientific)	National committee member
<b>Fergal Finn</b>	(NSAI)	National committee member
<b>Ger Hennessy</b>	(Veritex)	National committee member
<b>Ger Kehoe</b>	(Consultant)	National committee member
<b>Gerard Coughlan</b>	(Pfizer)	National committee member
<b>Keith Ennis</b>	(Ennis Bros.) & (AECI)	National committee member
<b>Ken Lynch</b>	(Independent Specialist)	National committee member
<b>Kieran Fallon</b>	(DPS)	National committee member
<b>Martin Crowe</b>	(Sulzer)	National committee member
<b>Michael O'Brien</b>	(Jones Engineering)	<b>National chairperson</b>
<b>Niall Ross</b>	(BHGE)	National committee member
<b>Noleen Campbell</b>	(NSAI)	National committee member
<b>Padraig Delaney</b>	(HSA)	National committee member
<b>Sean Frawley</b>	(Johnson & Johnson)	National committee member
<b>Stephen Moore</b>	(BMS)	National committee member

## 5 Summary of 2020 Activities

### 5.1 National

The Committee met three times in 2020 using a combination of face to face and MS Teams meetings. The committee had a change in secretariate. Overall, the number of members participating in the work of the committee continues to increase.

A subcommittee was formed to look at an ATEX guide. As work developed it was agreed that this work would be hosted by the HSA. As the group developed the work, the work changed from a guidance document to a website. The HSA agreed to host the website. The subcommittee met on their own time to develop this work. There were 2 additional meetings held with NSAI and the subcommittee.

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.

IEC TC31 plenary meeting was held virtually in November 2020.

#### 5.1.1 Meetings

Committee members attended the following NSAI national meetings:

Meeting No.	Date	Minutes Reference
1	2020-02-12	<a href="#">N0910</a>
2	2020-08-14	<a href="#">N0924</a>
3	2020-12-11	<a href="#">N0934</a>

#### 5.1.2 National Work

A subcommittee was formed to generate an ATEX Guide which is planned to be hosted by the HSA. The subcommittee met several times in 2020 outside of NSAI. The following two meetings were held with NSAI on the ATEX Guide.

Meeting No.	Date	Attendance Record
1	2020-09-18	
2	2020-11-12	<a href="#">N0928</a>

### 5.2 International/Regional

#### 5.2.1 Meetings

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

Committee Name	Location	Date	No. of Attendees

## 5.2.2 International/Regional Work

The committee worked on developing an ATEX Verification Guidance. As the work developed the scope was expanded from a physical guide document to a website. It was agreed that the website would be hosted by the HSA for use by people working in Explosive Atmospheres. It is hoped that the website will be operational in Q1 of 2021.

## 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
<a href="#">IEC TC 31 / SC 31 J/MT 60079-14</a>	Maintenance of IEC 60079-14 Ed. 4.0: Explosive atmospheres - Part 14: Electrical installations design, selection and erection
<a href="#">IEC TC 31 / SC 31 J/MT 60079-17</a>	Maintenance of IEC 60079-17 Ed. 4.0: Explosive atmospheres - Part 17: Electrical installations inspection and maintenance
<a href="#">IEC TC 31 / SC 31 J/MT 60079-19</a>	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

## 5.2.4 International/Regional Voting Results

The committee vote on all documents at IEC & CLC level using a default voting strategy.

The committee actively voted on 4 documents in 2020.

Vote Reference	Comments Received	Decision
31/1544/CD	Yes	Approve
31/1562/FDIS	No	Approve
FprEN IEC 60079-26:2020	No	Approve
31/1560/CD	No	Approve

## 5.3 Regulatory Development/Update

The committee started a review of the following Statutory Instruments and this work is planned to continue in 2021.

- [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.

### 6.2 Reviews

NSAI/ETC/TC 02 were reviewing documents published by ETCI. The following documents related to NSAI/ETC/TC 06. The Committee reviewed the following Irish national deliverables:

- ET 202 "Guide to the Selection of Electrical Apparatus for Use in Potentially Explosive Atmospheres".
- ET 209 "A Recommended Maintenance & Inspection Routine for Electrical Installations in Potentially Explosive Atmospheres"

and advised of the following:

- ET 202:2001 – Had been updated and incorporated entirely into the Main Body, Normative and Informative Annexes of ET 105:2011.
- ET 209:2003 – Had been updated and incorporated into Part 16, Part 17 and Annex J of ET 105:2011.

Both publications were withdrawn on the 16<sup>th</sup> November 2011 in favour of ETCI ET 105:2011 – "National Rules for Electrical Installations in Potentially Explosive Atmospheres" – Third Edition.

ET 105:2011 was subsequently withdrawn on 26/22/2018.

This review was conducted to ensure NSAI had a record of the status of these deliverables.

## 7 Work programme for 2021 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.

A new subcommittee will be formed in Q1 2021, NSAI/ETC/TC 06/SC 01 who 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 committee have formed several groups to develop this work. The groups identified are listed below:

- Functional Safety Group
- Static Group
- Earthing Group KE & MOB
- Instrumentation Group
- EPD Group
- Inspection & Testing Group
- S.I. 630 2019 & S.I. 631 2019

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 meetings in 2021.

## 8 Additional Information

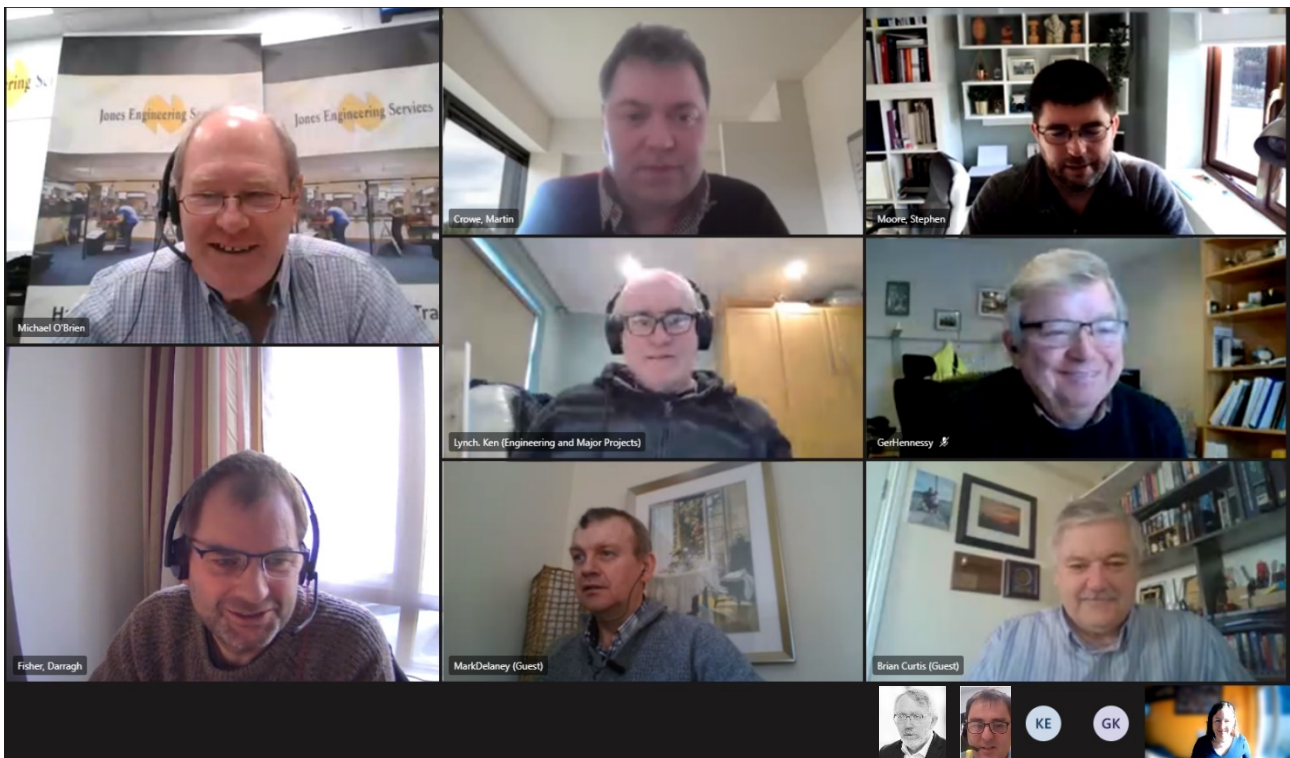


FIGURE 1: COMMITTEE MEETING VIA MS TEAMS