

# ANNUAL REPORT 2020

NSAI TECHNICAL COMMITTEES (NSAI/ETC/TC 03)

## Contents

1	Cha	irm	nan's Statement	3
2	Intr	odı	uction	3
3	Sco	ре	of TC	3
4	Stru	ıctı	ure and Membership	4
	4.1	St	tructure	4
	4.2	М	embers	5
	4.2.	.1	Members of NSAI/ETC/TC 03/SC 01	5
	4.2.	.2	Members of NSAI/ETC/TC 03/SC 02	6
5	Sun	nm	ary of 2020 Activities	6
	5.1	Na	ational	6
	5.1.	.1	Meetings	6
	5.1.	.2	National Work	6
	5.2	In	nternational/Regional	7
	5.2.	.1	Meetings	7
	5.2.	.2	International/Regional Work	7
	5.2.	.3	International/Regional Standards Reviewed	7
	5.2.	.4	International/Regional Voting Results	7
	5.3	Re	egulatory Development/Update	7
6	Irish	h Pr	ublications/Reviews	8
	6.1	Ρι	ublications	8
	6.2	Re	eviews	8
7	Wor	rk p	programme for 2021 onwards	8
Ω	٨٨٨	litic	onal Information	a

## 1 Chairman's Statement

2020 was a year of active consolidation and transformation for the committee following the publication of S.R. 61936:2019, in 2019. The committee held nine meetings over 2020.

In 2020, the committee has been reviewing the contents of the 'Standard Recommendation', identifying areas for improvement.

The committee took over the monitoring of standards that were the preserve of NSAI/ETC/TC 19, which recently disbanded. We have also agreed to take on the development of Irish National Normative Aspects NNA to EN 50341-1.

The global pandemic transformed our collective engagements into the Virtual world of MS Teams meetings with considerable success; ably assisted by our NSAI colleagues. For the first time, committee members also contributed substantially to the work of our associated international committees and working groups.

Membership and contributions of the committee is very healthy. We expect to further expand the scope of the Committee's activities in 2021.

#### 2 Introduction

NSAI/ETC/TC 03 is the technical committee responsible for preparing national installation standards for High Voltage power installations (exceeding 1 kV a.c. or 1,5 kV d.c.) located indoors or indoors, including earthing. In 2019, the committee published a Standard Recommendation S.R. 61936:2019, "Guidelines on the application of I.S. EN 61936-1:2010&A1:2014, Power installations exceeding 1 kV a.c. - Part 1: Common rules".

The committee are responsible for the maintenance of S.R. 61936.

The committee has two Subcommittees which reports into it.

- NSAI/ETC/TC 03/SC 01 "Overhead electrical lines exceeding 1kVa.c.
  - This subcommittee was established to develop the Irish National Normative Aspects NNA to EN 50341-1 "OVERHEAD ELECTRICAL LINES EXCEEDING AC 1 KV PART 1: GENERAL REQUIREMENTS COMMON SPECIFICATIONS", which will be I.S. EN 50341-2-11 "Overhead Electrical Lines Exceeding AC 1 KV Part 2-1: National Normative Aspects (NNAs) For Ireland (based On EN 50341-1)"
- NSAI/ETC/TC 03/SC 02 "Insulators and surge Arresters"

As a result of restructuring within the Electrotechnical sector of NSAI, NSAI/ETC/TC 19 was disbanded and reformed as a subcommittee NSAI/ETC/TC 03/SC 02.

## 3 Scope of TC

NSAI/ETC/TC 03 is the Technical Committee responsible for preparing national installation standards for High Voltage power installations (exceeding 1 kV a.c. or 1,5 kV d.c.) located indoors or indoors, including earthing. The standard specifies the design requirements of the installation, and the selection and erection of electrical equipment in order to ensure the safety of persons and the proper operation of the installation. The installation standard is not applicable to factory built and type tested equipment but is relevant to the installation of this equipment. The installation requirements are not applicable to overhead and underground lines between separate installations. Thus, the work of the committee is analogous to the work of NSAI ETC

TC2 'Electrical Installations' which develops and maintains the requirements for installations connected at low voltage. The two committee's co-ordinate closely on interface issues.

The committee mirrors the following international committees:

Committee Name	Committee Title				
IEC TC 99	Insulation co-ordination and system engineering of high voltage electrical power installations above 1,0 kV AC and 1,5 kV DC				
IEC TC 11	Overhead lines				
IEC PC 127	Low-voltage auxiliary power systems for electric power plants and substations				
IEC PC 128	Operation of electrical installations				
CLC BTTF 62-3	Operation of electrical installations				
CLC TC 11	Overhead electrical lines exceeding 1kV a.c. (1.5kV d.c.)				
CLC TC 99X	Power installations exceeding 1 kV a.c. (1,5 kV d.c)				

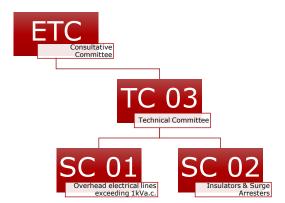
Subcommittee NSAI/ETC/TC 03/SC 02 mirrors the following international committees:

Committee Name	Committee Title
IEC TC 36	Insulators
IEC SC 36A	Insulated bushings
IEC TC 37	Surge arresters
IEC SC 37A	Low-voltage surge protective devices
IEC SC 37B	Components for low-voltage surge protection
CLC TC 36A	Insulated bushings
CLC TC 37A	Low-voltage surge protective devices

## 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	Initials
Amanda-Jane Gainford	(NSAI)	National secretary	AJG
Andrew Coffey	(MOTTMAC)	National committee member	AC
Brendan Redington	(HSE)	National committee member	BR
Brian Perry	(ESBI)	National committee member	BP
Chris McLoughlin	(IET)	National committee member	CMcL
Ciaran Allen	(Consultant)	National committee member	CA
CJ Roy	(ESBI)	National committee member	CR
Colm Twomey	(ESBI)	National committee member	CT
Dejan Stojanovic	(SIRO)	National committee member	DS
Dermot Dorgan	(ESBI)	National committee member	DD
Eamon Sheehan	(H&MV Engineering)	National committee member	ES
Hugh Cunningham	(ESBI)	National committee member	HC
James Moran	(Suir Engineering)	National committee member	JM
John Egan	(MDS)	National committee member	JE
John Whelan	(ESBI)	National committee member	JW
Kenny McDonnell	(ESB)	National committee member	KMcD
Kevin O'Connor	(ESB) CHAIR	National chairperson	KOC
Kieran French	(Eirgrid)	National committee member	KF
Michael Maher	(ESB)	National committee member	MM
Michael O'Hara	(AECI)	National committee member	MOH
Neil Cowap	(AECOM)	National committee member	NCP
Noleen Campbell	(NSAI)	National secretary support team	NC
Padraig Delaney	(HSA)	National committee member	PD
Padraig Plunkett	(Consultant) (Liaison Engineers Ireland)	National committee member	PP
Paul Moran	Paul Moran (Eirgrid)		PM
Philip Hicks	(Hivar Engineering)	National committee member	PH
Tom Keane	(MOTTMAC)	National committee member	TH
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·

## 4.2.1 Members of NSAI/ETC/TC 03/SC 01

Name	Organisation	Role	Initials
Amanda-Jane Gainford	(NSAI)	National Secretary	AJG
Brian Gallagher	(ESB)	National Committee Member	BG
David Tuohy	(ESB)	National Committee Member	DT
John Lucey	(ESB)	National Committee Member	JL
Ken Atkinson	(EBS)	National Committee Member	KA
Paul Shiel	(ESB)	National Committee Member	PS
Peter Ennis	(ESB)	National Committee Member	PE
Timothy Condon	(ESB)	National Committee Member	TC

#### 4.2.2 Members of NSAI/ETC/TC 03/SC 02

Name	Organisation	Role	Initials
Noleen Campbell	(NSAI)	National secretary	AJG
Timothy Condon	(ESB)	National Chairperson	TC
Patrick Fitzgerald	(TE CONNECTIVITY IRELAND LTD)	National Committee Member	PF
Paul Shiel	(ESB)	National Committee Member	PS

## 5 Summary of 2020 Activities

#### 5.1 National

The full Technical Committee met four times in 2020. A working group was set up to examining any editorial or technical changes which may be needed in S.R. 61936. This working group met five times in 2020 and will continue the review of S.R. 61936 in 2021.

Following on from the publication of S.R. 61936, a number of public awareness activities and events were held during 2020. This include the socialising of the Standard Recommendation through social media platforms as well as traditional media trade magazines. Lectures were given to organisations such as IET Ireland in order to engage directly with stakeholders and raise public awareness about the contents relevant to Irish industry.

#### 5.1.1 Meetings

Committee members attended the following national meetings in NSAI as follows:

Meeting No.	Date	Minutes Reference
1	13 <sup>th</sup> February 2020	<u>N1132</u>
2	28 <sup>th</sup> May 2020	<u>N1141</u>
3	13 <sup>th</sup> August 2020	<u>N1163</u>
4	19 <sup>th</sup> November 2020	<u>N1181</u>

An Ad-hoc subcommittee working on S.R.61936 met as follows:

Meeting No.	Date	Minutes Reference
1	18 <sup>th</sup> June 2020	<u>N1145</u>
2	26 <sup>th</sup> August 2020	<u>N1156</u>
3	1 <sup>st</sup> October 2020	<u>N1168</u>
4	5 <sup>th</sup> November 2020	<u>N1169</u>
5	10 <sup>th</sup> December	<u>N1185</u>

#### 5.1.2 National Work

The committee reviewed S.R. 61936 during the 2<sup>nd</sup> half of 2020.

## 5.2 International/Regional

#### 5.2.1 Meetings

Committee members attended international CENELEC (CLC) and IEC meetings as follows:

<b>Committee Name</b>	Location	Date	No. of Attendees
IEC TC 99 Plenary	Virtual	2020-10-05	3 (AJG, CMcL, PP)
IEC/TC 99/MT 4	Virtual	2020-09-29 2020-09-30 2020-10-01 2020-10-27 2020-10-28 2020-11-05 2020-11-06	2 (PP, HC) 2 (PP, HC) 2 (PP, HC) 2 (PP, HC) 2 (PP, HC) 1 (PP) 2 (PP, HC)
IEC/PC/127	No meetings held in 2020	N/A	N/A
IEC/PC/127 WG 2	No meetings held in 2020	N/A	N/A
IEC/PC/127 WG 4	No meetings held in 2020	N/A	N/A
IEC/PC/127 ahG 1	No meetings held in 2020	N/A	N/A
CLC/BTTF 62-3	No meetings attended	N/A	N/A
CLC/TC 11/WG 09	No meetings held in 2020	N/A	N/A
CLC/TC 99X/WG 01	Zoom Meeting	27/03/2020	N/A

#### 5.2.2 International/Regional Work

The newly established international project committee IEC PC 127 "Low-voltage auxiliary power systems for electric power plants and substations" was also brought within the scope of the NSAI/ETC/TC03 and a representative from the National Mirror Committee was nominated to the Chair of IEC PC 127.

#### 5.2.3 International/Regional Standards Reviewed

The committee continue to review standards as they arise in IEC & CLC.

#### 5.2.4 International/Regional Voting Results

The committee actively voted on 9 documents in 2020.

IEC/TC 99 x 3

IEC/PC 127 x 5

CLC/TC 99X X 1

## 5.3 Regulatory Development/Update

The committee would like to have S.R. 61936 cited. No progress has been made to date on this.

# 6 Irish Publications/Reviews

#### 6.1 Publications

The Committee did not publish any deliverables this year.

#### 6.2 Reviews

The Committee reviewed the following Irish national deliverables: S.R. 61936-1:2019

## 7 Work programme for 2021 onwards

The committee will continue attendance and contribution at IEC & CLC level throughout 2021. The committee are exploring the following areas for 2021:

- Gap analysis of S.R. 61936 for work prioritisation for next edit
- Inclusion of Ireland requirements into CLC & IEC Standards
- Plan to have S.R. 61936 referenced in Guide to the Safety, Health & Welfare at Work (General Applications) Regulations 2007, Part 3 "Electricity".
- Expansion of NSAI/ETC/TC 03 scope into the areas of competence and design certification
  - Proposal is that NSAI/ETC/TC 03 should concentrate on developing both standards including design certification and the area of competence.
  - o Next revision of I.S. EN 50110

# 8 Additional Information



FIGURE 1: MS TEAMS COMMITTEE MEETING