ANNUAL REPORT 2024

NSAI TECHNICAL COMMITTEES (NSAI/ETC/TC 21 "ELECTROSTATICS")

Contents

1 Chair Statement

We would like to thank members for their participation in NSAI ETC TC 21 this year and Amanda-Jane for her time and work put in as secretary. NSAI ETC TC 21, The National Electrostatics Technical Committee remained active this year in standards development. The National committee was represented this year in the IEC 101 working groups and the IEC TC 101 plenary meeting in July. The work of IEC TC 101 has seen updates to the IEC 61340-5 x Series of standards concerning Electrostatic Control in the manufacture of Electronics. It was also noted that IEC 61340-5-1 was a best seller on the IEC website. Work has also gone into the publication and revision of IEC 61340-6-x series of standards to Electrostatic control in Healthcare and Public facilities. Ireland has 4 National members represented on the IEC working groups.

We look forward to working together in 2025.

Happy New Year

Lewis Brien

Chair of NSAI/ETC/TC 21.

2 Introduction

NSAI/ETC/TC 21 was established to coordinate the national input to the work of IEC TC 101 Electrostatics with reference to:

- Standardisation in the field of electrostatics to provide general guidance on test methods to evaluate the generation, retention and dissipation of electrostatic charges.
- Ascertaining the effect of electrostatic discharges.
- Methods of simulation of electrostatic phenomena for testing purposes.
- Requirements for design and implementation of handling areas or procedures, equipment, and materials used to control or eliminate electrostatic hazards or undesirable effects.

3 Scope of TC

The work of NSAI/ETC/TC 21 serves the needs of all sectors of Irish industry with the requirement to control electrostatic phenomena. This includes enterprises working the electronics sector, occupational and process safety and electrostatic nuisance management.

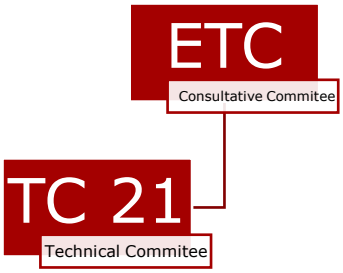
The committee mirrors the following international committee:

Committee Name	Committee Title
IEC TC 101	Electrostatics
CLC/SR[1] 101	Electrostatics

4 Structure and Membership

4.1 Structure

The Figure below illustrates the structure of the Committee:



4.2 Members

2024 maintained similar membership to last year. The table below list the members represented on the committee for the year:

Organisation	Role
Analog	National Committee Member
Compliance Engineering Ireland	**National Chairperson**
Consultant	National Committee Member
Dell	National Committee Member
Kostal	National Committee Member
Veolia Energy Services	National Committee Member -Liaison
NSAI	**National Secretary**

[1] https://boss.cenelec.eu/TechnicalStructures/Pages/SR

5 Summary of 2024 Activities

5.1 National

5.1.1 Meetings

The Committee members attended virtually the following national meetings:

Meeting No.	Date	Minutes Reference
1	2024/02/20	N0583
2	2024/05/21	N0590
3	2024/08/13	N0595
4	2024/11/05	N0618

5.1.2 National Work

Lewis Brien was re-appointed as the Chair of NSAI/ETC/TC 21 Committee on the 5th of November 2024 for a 3-year term. The committee met 4 times in 2024 and are focused on allowing Irish experts' participation in the development of the IEC 61340 series of standards by IEC TC 101. The IEC 61340 series is comprised of five parts:

- Part 1 – General,
- Part 2 – Measurement methods in electrostatics,
- Part 3 – Methods for simulating electrostatic effects,
- Part 4 – Standard test methods for specific applications and
- Part 5 – Protection of electronic devices from electrostatic phenomena.

5.2 International/Regional

5.2.1 Meetings

Committee members attend the following international IEC meetings in 2024.

Committee Name	Location	Date	No. of Attendees
IEC/TC 101 Plenary	Shenzhen, China	2024-06-28	1 - remote

5.2.2 International/Regional Work

NSAI/ETC/TC 21 monitors the work of IEC TC 101 and members of the committee attended maintenance teams and working group meetings.

5.2.3 International/Regional Standards Reviewed

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

The committee has been actively attending IEC meeting in relation to IEC TC 101. The committee provided comments to the following documents:

- IEC 101/700/CVD - IEC 61340-6-1/AMD1 ED1 Amendment 1 - Electrostatics - Part 6-1: Electrostatic control for healthcare - General requirements for facilities

- IEC 101/705A/FDIS - IEC 61340-5-1 ED3 Electrostatics - Part 5-1: Protection of electronic devices from electrostatic phenomena - General requirements
- CLC EN IEC 61340-6-1:2018/prA1:2023, See 101/700/CVD
- CLC FprEN IEC 61340-5-1:2024, See 101/705/FDIS

5.2.4 International/Regional Voting Results

The committee have actively voted on 11 documents in 2024 and have submitted 4 sets of comments.

Active votes were broken down as 8 for IEC documents and 3 for CENELEC documents.

Body	Vote Reference	Comments Submitted	Decision	WIID
IEC	101/698/CDV	No	Abstain	
IEC	101/700/CDV	Yes	Disapprove	
IEC	101/704/CD	No	In Favour	
IEC	101/705/FDIS	No	Approve	
IEC	101/705A/FDIS	Yes	Approve	
IEC	101/709/CD	No	No Comment	
IEC	101/718/FDIS	No	In Favour	
IEC	101/723/FDIS	No	Abstain	
CLC	EN IEC 61340-6-1:2018/prA1:2023	Yes	Disapprove	78406
CLC	FprEN IEC 61340-5-1:2024	Yes	Approve	75859
CLC	prEN IEC 61340-4-11:2023	No	Abstain	74121

5.3 Regulatory Development/Update

The committees did not review any regulatory developments.

Electrostatic is included in the following EU Directive.

- Directive 2014/35/EU Low Voltage Directive (LVD).

6 Irish Publications/Reviews

6.1 Publications

The Committee did not publish any deliverables this year.

6.2 Reviews

The Committee carried out no reviews of Irish national deliverables.

7 Work programme for 2025 onwards

The committee have agreed to meet once/quarter in 2025. It was accepted that any matters concerning a committee member in relation to a standard can be discussed between committee members on a technical level, via email or phone. If action is required, the matter can be sent to secretary to enact or query further. The chair is open to contact at any stage to aid or discuss.

The committee will continue to attend and contribute at the IEC & CLC level throughout 2025 by reviewing, inputting Irish comments and voting on the various stages of standards development.

The number of work programmes taking place in the relevant IEC committee are listed and detailed below:

- IEC TC 101 8 work programmes.

IEC Work Programme:

IEC	Project Reference	Title	Document Reference	Working Group	Fcst. Publ. Date
TC 101	PREPNW 101-6	Electrostatics – Part 2-4: Measurement methods - Electrostatic discharge characterisation of non-metals			2027-12
TC 101	PNW TS 101-729 ED1	Electrostatics - Part 2-4: Measurement methods - Electrostatic discharge characterisation of non-metals		PT 101-5	2027-10
TC 101	IEC TR 61340-1-1 ED1	Electrostatics - Part 1-1: Electrostatic phenomena - Measurement errors, uncertainties and expression of results	101/728/DTR	PT 61340-1-1	2025-05
TC 101	IEC 61340-4-6 ED3	Electrostatics – Part 4-6: Standard test methods for specific applications – Wrist straps	101/661/CDV	WG 5	2025-08
TC 101	IEC 61340-4-7 ED3	Electrostatics - Part 4-7: Standard test methods for specific applications - Ionization	101/650/CDV	WG 5	2025-10
TC 101	IEC 61340-4-11 ED1	Electrostatics - Part 4-11: Standard test methods for specific applications - Testing of electrostatic properties of composite IBC	101/723/FDIS	PT 61340-4-11	2025-03
TC 101	IEC TS 61340-5-4 ED2	Electrostatics - Part 5-4: Protection of electronic devices from electrostatic phenomena - Compliance verification	101/726/CD	WG 5	2026-01

TC 101	IEC TS 61340-5-6 ED1	Electrostatics - Part 5-6: Protection of electronic devices from electrostatic phenomena - Process Assessment Techniques	101/709/CD	WG 5	2025-07

8 Additional Information

No additional information.