ANNUAL REPORT 2021

NSAI TECHNICAL COMMITTEES (TC 21 "ELECTROSTATICS")

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1 Chair Statement

We would like to thank everyone for their participation in TC 21 this year

TC 21, The National Electrostatics Technical Committee, although possibly small in comparison to other technical committees, has been quite active this year with contribution to IEC 61340-4-9 which we were delighted to see was largely accepted by TC101.

On an international level, standard revisions from TC 101, such as IEC 61340-2-1/AMD 1 ED2, "Measurement methods - Ability of materials and products to dissipate static electric charge" is currently open for vote of which TC 21 will participate. There are also 8 working documents open, so there are opportunities for further participation in the development of these standards.

Electrostatics, a phenomenon discovered in B.C times, is as apparent these days; In Industry areas such as manufacturing of electronics for example, or manufacturing that use chemicals, gases, dust, or plastics. ESD needs to be controlled for quality and safety reasons. In many ways, century-old principles and evolving technology, both in manufacturing and product offerings, new methods and standards have to be developed to control Electrostatic issues. As a committee We can aid this process. In other everyday examples, residential and workplaces can experience electrostatic issues. New standards IEC 61340-4-9 ED3 relevant to garments in electronics manufacturing, and IEC 61340-6-2 "Electrostatic control in healthcare, commercial and public facilities" - are open for this committee to work on, review and vote.

Further to the ongoing work above, we would like to thank Mr Richard Coffey for accepting to be the Liaison between TC06 (Explosive Environments) and this committee TC 21, which connects the crossover of interest in the two committees.

I look forward to working with all members in the forthcoming year.

Many Thanks

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 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.

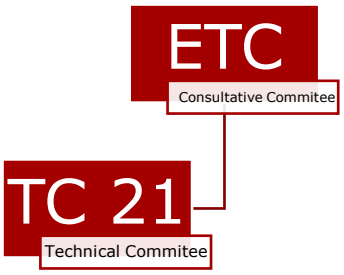
The committee mirrors the following international committee:

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

The table below provides the names of the members for the year:

Organisation	Role
Compliance Engineering Ireland	**National Chairperson**
Consultant	National Committee Member
Dell	National Committee Member
Independent Consultant	National Committee Member
Kostal	National Committee Member
NSAI	**National Secretary**
PM Group Global	National Committee Member

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

5 Summary of 2021 Activities

5.1 National

5.1.1 Meetings

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

Meeting No.	Date	Minutes Reference
1	2021/11/09	**N0533**

5.1.2 National Work

NSAI/ETC/TC 21 met for the first time since 2018 in 2021. The committee welcomed new members and a new chair at their meeting. The committee is 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 including

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 no international IEC meetings in 2021

Committee Name	Location	Date	No. of Attendees
IEC/TC 101 Plenary			
CLC/SR 101 Plenary			
IEC/ TC 101/WG 5			
IEC/ TC 101/WG 16			

5.2.2 International/Regional Work

NSAI/ETC/TC 21 monitors the work of IEC TC 101

5.2.3 International/Regional Standards Reviewed

The committee provided comments to IEC 61340-4-9 ED 3, Electrostatics - Part 4-9: Standard test methods for specific applications - Garments - Resistive Characterization

5.2.4 International/Regional Voting Results

The committee have actively voted on 1 document in 2021 and have submitted 1 sets of comments. This was for 61340-2-1/AMD 1 ED2 amendment

Body	Vote Reference	Comments Submitted	Decision	WIID
IEC	101/626/CD	Yes	Approve	

5.3 Regulatory Development/Update

None.

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 2022 onwards

The committee have agreed to meet once/quarter in 2022. 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.

8 Additional Information

None.