



**NSAI**

# ANNUAL REPORT 2023

NSAI TECHNICAL COMMITTEES  
(NSAI/ETC/TC 15 HUMAN  
EXPOSURE TO  
ELECTROMAGNETIC FIELDS)

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## 1 Introduction

NSAI/ETC/TC 15 serves the telecommunication, ICT, and power transmission sectors in Ireland. The protection of the general consumer and users of electrical products that emit electromagnetic fields from 0 Hz to 300 GHz are addressed by the standards programme of this committee. This includes products such as mobile phones, laptops, tablets, medical devices, electric vehicles and other products that may emit EMF. Transmitting devices using Radio frequency are also under the remit of this committee.

The main activity for this committee is to monitor and provide input on the International (IEC) and European (CENELEC) standards developed to assess electromagnetic fields associated with human exposure or in the Human Environment. Some of the standards produced are listed in the Official Journal of the European Union as harmonized standards under the Radio Equipment Directive and Low Voltage Directive.

The industry currently has a total of 16 active national members, of which 5 experts are involved in international or regional standardisation work with CENELEC, IEC, or both.

## 2 Scope of TC

NSAI/ETC/TC 15 provides a national forum for the review and contribution to the development of standards in the area of Electromagnetic fields and Human Health. The main focus of this committee is the work of CLC/TC 106X and IEC/TC 106.

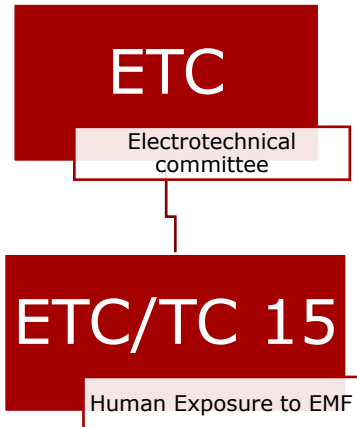
Members of TC also play a role in promoting best practice nationally in relation to use of appropriate standards to ensure safety for human exposure to electromagnetic fields.

The committee mirrors the following international committees:

Committee Name	Committee Title	Membership Type
<b>IEC/TC 106</b>	Methods for the assessment of electric, magnetic and electromagnetic fields associated with human exposure	P Member
<b>CLC/TC 106</b>	Electromagnetic fields in the human environment	N/A

## 3 Structure and Membership

### 3.1 Structure



### 3.2 Members

The list below are the organizations represented on NSAI ETC TC 15 in 2023:

Organisation	Role
<b>Compliance Engineering Ireland</b>	Chairperson
<b>NSAI</b>	Secretary
<b>Compliance Engineering Ireland</b>	Committee member
<b>ESB</b>	Committee members (x2)
<b>Johnson Controls</b>	Committee member
<b>2RN</b>	Committee member
<b>Environmental Protection Agency</b>	Committee members (x2)
<b>EIR</b>	Committee member
<b>Dell</b>	Committee member
<b>Apple</b>	Committee members (x3)
<b>Intel</b>	Committee member
<b>Vodafone</b>	Committee member
<b>ComReg</b>	Committee Observer

## 4 Summary of 2023 Activities

### 4.1 National

NSAI/ETC/TC 15 met twice in 2023. Both meetings were strongly attended. In addition, a delegation of NSAI/ETC/TC 15 members represented Ireland at all International and European meetings in 2023.

#### 4.1.1 Meetings

Committee members participated in the following national meetings.

Meeting No.	Date	Minutes Reference
<b>1</b>	30 <sup>th</sup> May 2023	N1073
<b>2</b>	7 <sup>th</sup> November 2023	N1077

## 4.1.2 National Work

NSAI/ETC/TC 15 had no national deliverables in 2023. The committee's focus is on participation in International Standards development.

## 4.2 International/Regional

### 4.2.1 Meetings

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

Committee Name	Date	No. of Attendees
<b>IEC TC 106</b>	5 <sup>th</sup> October 2023	1
<b>CLC TC 106X</b>	23 <sup>rd</sup> May 2023	2
	4 <sup>th</sup> December 2023	3

### 4.2.2 International/Regional Work

NSAI/ETC/TC 15 members participate on the following IEC/TC 106 and CLC/TC 106X working groups.

Name	Title
<b>CLC/TC 106X/WG 1</b>	Mobile phones and base stations
<b>CLC/TC 106X/WG 2</b>	Anti-theft devices
<b>CLC/TC 106X/WG 7</b>	Broadcasting
<b>CLC/TC 106X/WG 15</b>	EMF and implants
<b>CLC/TC 106X/WG 17</b>	Emf assessment in the electricity supply industry
<b>CLC/TC 106X/WG 21</b>	Basic standards and generic standards
<b>IEC/TC 106X/WG 8</b>	Assessing methods for assessment of contact current related to human exposures to electric, Magnetic and electromagnetic fields
<b>IEC/TC 106X/WG 9</b>	Assessing methods for assessment of Wireless Power Transfer (WPT) related to human exposures to electric, magnetic and electromagnetic fields

In addition to the above, NSAI/ETC/TC 15 members contribute to the development of international and regional standards in 2023 by advising NSAI on voting positions.

### 4.2.3 International/Regional Voting

IEC/TC 106: Ireland voted on all documents closed in 2023 with a 100% overall voting record.

CLC/TC 106X: Ireland voted on all documents closed in 2023 with a 100% overall voting record.

The committee actively voted on 6 items in 2023.

Body	Vote reference	Comments submitted	WIID	Decision
CLC	EN 50360:2017/FprA1	No	69850	Approve
CLC	EN 5566:2017/FprA1	No	69849	Approve
IEC	106/622B/Q	Yes	-	Approve

IEC	106/627/Q	No	-	Approve
IEC	106/612/CDV	No	-	Approve
CLC	prEN IEC 63184	No	-	Approve

## 4.2.4 International/Regional Standards Reviewed

The work programme of CLC/TC 106X and IEC/TC 106 were monitored during 2023.

## 4.3 Regulatory Development/Update

CLC/TC 106X publishes standards concerned with the following European Directives.

- Directive 2014/30/EU - Electromagnetic Compatibility (EMC)
- Directive 2014/35/EU - The Low Voltage Directive (LVD)
- Directive 2014/53/EU - Radio Equipment Directive (RED)

These directives do not specify limits and rely on standards to specify correct and safe limits. The standards developed by CLC/TC 106X, when cited in the Official journal of the European union can be used to demonstrate compliance with these directives.

One standard registered in 2023 is currently under development by CLC/TC 106X and proposed for citation under EU directives are listed in the table below:

Draft Standard	Directive
EN 50413:2019/prA1 Basic standard on measurement and calculation procedures for human exposure to electric, magnetic and electromagnetic fields (0 Hz - 300 GHz)	2013/35/EU (EMF Directive)

In addition to the work ongoing in relation to already in force directives, there are also several draft directives and regulation of interest to CLC/TC 106X and therefore NSAI/ETC/TC 15. These include the A.I. Act and the Cyber Resilience Act. Additionally, a delegated act under the Radio Equipment Directive (RED) seeks to increase the cybersecurity of wireless devices and products available in the EU.

## 5 Irish Publications/Reviews

### 5.1 Publications

The Committee did not publish any national deliverables in 2023.

### 5.2 Reviews

There are no existing national publications, so no reviews were carried out in 2023.

## 6 Work programme for 2024 onwards

NSAI/ETC/TC 15 plans to continue to monitor the work of CLC/TC 106X and IEC/TC 106. National experts nominated to WG's under CLC/TC 106X will contribute to its work programme.