ANNUAL REPORT 2022

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

Contents

1 Introduction

This TC 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, EV's and other products that may emit EMF. Transmitting devices using Radiofrequency are also under the remit of this committee.

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

The industry currently has 5 experts involved in international work.

A total of 15 active national members

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.

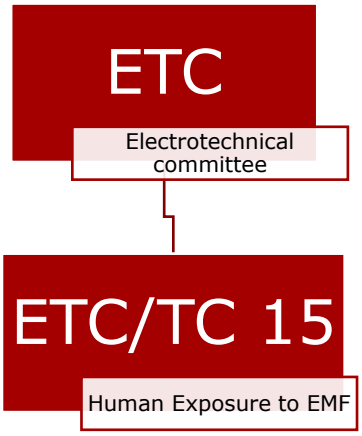
Members of TC also play a role in promoting best practice nationally in relation to use of appropriate standards to ensure safety for human exposure to electromagnetic fields.

The committee mirrors the following international committees:

Committee Name	Committee Title
IEC/TC 106	Methods for the assessment of electric, magnetic and electromagnetic fields associated with human exposure
CLC/TC 106	Electromagnetic fields in the human environment

3 Structure and Membership

3.1 Structure



3.2 Members

2022 saw the appointment of a new NSAI secretary.

The list below are the organizations represented on NSAI ETC TC 15 for the year:

Organisation	Role
Compliance Engineering Ireland	2 expert members (Chair & 1 member)
ESB	2 Expert members
Johnson Controls	1 Expert member
2RN	1 Expert member
EPA	2 Expert members
EIR	1 Expert member
Dell	1 Expert member
Apple	3 Expert members
Intel	1 Expert member
Vodafone	1 Expert member
NSAI	Committee secretary

One new member joined the committee in 2022.

4 Summary of 2022 Activities

4.1 National

4.1.1 Meetings

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

Meeting No.	Date	Minutes Reference
1	9th May 2022	N1064
2	24th October 2022	N1071

4.1.2 National Work

There were no national projects assigned to ETC TC 15 in 2022

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
IEC TC 106	12th – 15th Sept 2022	2
CLC TC 106X	4th May 2022 8th Nov 2022	4 2

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

4.2.3 International/Regional Standards Reviewed

The work programmes of both CLC/TC 106X and IEC/TC 106 were monitored during 2022.

4.3 Regulatory Development/Update

The Radio Frequency Directive (RED) incorporates radio equipment, Low Voltage Directive (LVD) and EMF Directive. These directives do not specify limits and rely on standards to specify correct and safe limits. This Directive also refers to "reasonably foreseeable" conditions. The standards developed by CLC/TC 106X can be used to demonstrate compliance with these directives.

Different HAS consultants for RED, EMF & LVD review and approve relevant standards which has caused some delays in getting harmonised standards finally approved. The HAS system was renewed in 2022, however the system was put on hold for a time which resulted in a backlog of appraisals.

The list of standards registered in 2022 being developed by CLC/TC 106X and proposed for citation under EU directives are listed in the table below:

Draft Standard	Directive
EN 50566:2017/prA2 Product standard to demonstrate the compliance of wireless communication devices with the basic restrictions and exposure limit values related to human exposure to electromagnetic fields in the frequency range from 30 MHz to 6 GHz: hand-held and body mounted devices in close proximity to the human body	2014/53/EU (RED)
prEN 50360 Product standard to demonstrate the compliance of wireless communication devices, with the basic restrictions and exposure limit values related to human exposure to electromagnetic fields in the frequency range from 300 MHz to 6 GHz: devices used next to the ear	2014/53/EU (RED)
prEN 50385 Product standard to demonstrate the compliance of a base station with radiofrequency electromagnetic field exposure limits (110 MHz - 300 GHz), when placed on the market	2014/53/EU (RED)
prEN 50401 Product standard to demonstrate the compliance of a base station installation with radiofrequency electromagnetic field exposure limits (110 MHz - 300 GHz), when put into operation	2014/53/EU (RED)

4.4 Publications

The Committee did not publish any national deliverables in 2022.

5 Work programme for 2023 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.