



NSAI

ANNUAL REPORT 2021

NSAI TECHNICAL COMMITTEES
(NSAI/ETC/TC 16)

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1 Chairman's Statement

EMC is a horizontal topic –relevant to a significant number of CENELEC Technical Committees (EMC covers most sectors and products) – and is one of the greatest successes of electrotechnology standardization.

The fast pace of change in the electrical equipment market is such that it is challenging for EMC standardisation to keep up with technological innovation.

The European Commission had a review of the EMC Directive carried out during 2021. Overall, the findings were that whilst the EMCD has been effective in contributing towards the achievement of its objectives there were some areas of concern, particularly by radio amateurs. Some products are problematic in respect of the electromagnetic emissions they generate, and others have insufficient immunity.

Adoption of standards in the OJEU is improving somewhat and cooperation with the HAS consultants are appreciated by Cenelec delegates.

There is a high-level of alignment between European and international standards (>75%) which means that companies active in the electrotechnical sector can benefit from access to markets around the world, with lower compliance costs and integrated supply chains.

Particular issues being addressed in Cenelec and IEC include:

- Removal of statistical rules ('80-80 rules') from the European Standards
- Manufacturers' defined performance criteria
- Measurement uncertainty
- Requirements for radio enabled products
- Radiated magnetic-fields below 30 MHz (wireless charging)

2 Introduction

NSAI/ETC/TC 16 focus on standardization related to electromagnetic compatibility across the entire frequency spectrum. Consideration extends to all aspects of the ability of equipment or a system to function satisfactorily in its electromagnetic environment without introducing intolerable electromagnetic disturbances to anything in that environment.

3 Scope of TC

NSAI/ETC/TC 16 prepare European standards in the field of electromagnetic compatibility across the entire frequency spectrum.

Standards are available from www.standards.ie.

The committee mirrors the following international committees:

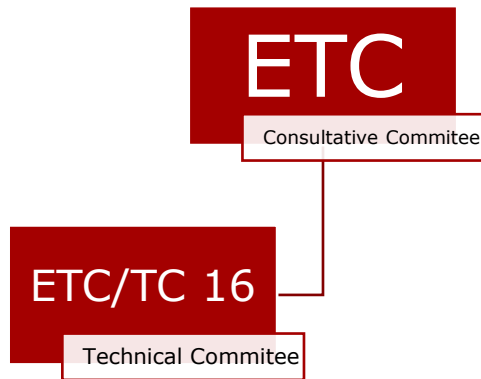
CLC/TC 210	Electromagnetic Compatibility (EMC)
CLC/TC 8x	System aspects of electrical energy supply
IEC/TC 77	Electromagnetic compatibility

IEC/CISPR	International special committee on radio interference
IEC/TC 8	TC 8 Related to 50160
IEC/TC 62	TC 62 Related to 60601-1-2
IEC/TC 65	TC 65 Related to 61326
IEC/TC 47	Semiconductor devices

4 Structure and Membership

4.1 Structure

The Figure below illustrates the structure of the Committee:



4.2 Irish Industry/Sector

NSAI/EC/TC 16 is made up of manufacturers of electrical and electronic equipment, test houses, consultants, utilities, notified body, regulator, academia and equipment users.

4.3 Members

The table below provides the names of the committee members for the year 2020:

Organisation	Role
2RN	National committee member
Analog	National committee member
Apple	National committee member
CEI	National chairperson
ComReg	National committee member
Dell	National committee member
E.M.T.	National committee member
EirGrid	National committee member
Independent	National committee member
Intel	National committee member
IRTS	National committee member
IRTS	National committee member
Medtronic	National committee member
NSAI	National secretary
Qorvo	National committee member

2RN	National committee member
Analog	National committee member

5 Summary of 2021 Activities

5.1 National

5.1.1 Meetings

Committee Members attended the following Virtual National meetings:

Meeting No.	Date	Minutes Reference
1	2021/04/23	N0792
2	2021/12/06	N0804

5.1.2 National Work

It was intended to hold at least two national committee meetings and attend TC meetings during 2021.

5.2 International/Regional

5.2.1 Meetings

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

Committee Name	Location	Date	No. of Attendees
IEC TC 77 Plenary	Virtual	2021/10/08	AJG
CLC TC 210 Plenary	Virtual	2021/04/26 2021/04/27	AJG, JMca AJG, JMca
CLC TC 210 Plenary	Virtual	2021/12/07 2021/12/08	AJG, JMca, JG AJG, JMca, JG
CLC/TC 8x/WG 01			
IEC/CISPR/CIS/I/MT 7			
IEC/CISPR/CIS/I/MT 8			
IEC/TC 47 Plenary	Virtual	2021/10/08	AR
IEC/TC 47/SC 47A/WG 2	Virtual	2021/10/06	AR
IEC/TC 47/SC 47A/WG 7	Virtual	2021/10/06	AR
IEC/TC 47/SC 47A/WG 9	Virtual	2021/10/01	AR
		2021/10/04	AR
		2021/10/05	AR
IEC/TC 77/SC 77A /WG 1			
IEC/TC 77/SC 77A /WG 2			
IEC/TC 77/SC 77A /WG 6			
IEC/TC 77/SC 77A /WG 8		2021/10/13	JG
		2021/10/28	JG
IEC/TC 77/SC 77A /WG 9			
IEC/TC 77/WG 13		2021/06/29	
		2021/06/30	

5.2.2 International/Regional Work

Some committee members attended Plenary sessions during 2021.

5.2.3 International/Regional Voting Results

NSAI/ETC/TC 16 propose a vote where required for IEC or CENELEC documents, which NSAI submits to the relevant bodies.

The committee have actively voted on 22 documents in 2021 and have submitted 7 sets of comments.

Active votes were broken down as 15 for IEC documents and 7 for CENELEC documents.

Body	Vote Reference	Comments Submitted	Decision	WIID
IEC	77A/1098/Q	Yes	Approve	
IEC	77B/836/Q	Yes	Approve	
IEC	77B/837/Q	Yes	Approve	
IEC	77C/301/CDV	No	Approve	
IEC	CIS/A/1330/Q	Yes	Approve	
IEC	CIS/A/1362/FDIS	No	Approve	
IEC	CIS/B/764/Q	Yes	Approve	
IEC	CIS/B/777/CDV	No	Approve	
IEC	CIS/B/778/CDV	No	Approve	
IEC	CIS/B/779/CDV	No	Approve	
IEC	CIS/B/780/CDV	No	Approve	
IEC	CIS/B/781/CDV	No	Approve	
IEC	CIS/B/782/CDV	No	Approve	
IEC	CIS/H/428/DC	Yes	Approve	
IEC	47A/1116/CD	Yes	Approve	
CLC	EN 55016-1-6:2015/FprA2:2021	No	Approve	68260
CLC	prEN IEC 55011:2021 (fragment 2)	No	Approve	72201
CLC	prEN IEC 55011:2021 (fragment 3)	No	Approve	72200
CLC	prEN IEC 55011:2021 (fragment 4)	No	Approve	72206
CLC	prEN IEC 55011:2021 (fragment 5)	No	Approve	72198
CLC	prEN IEC 55011:2021 (fragment 6)	No	Approve	72204
CLC	prEN IEC 55011:2021 (fragment 7)	No	Approve	72203

CLC/TC 210	Electromagnetic Compatibility (EMC)	Voted 7 times
CLC/TC 8x	System aspects of electrical energy supply	Voted 0 time
IEC/TC 77	Electromagnetic compatibility	Voted 4 times
IEC/CISPR	International special committee on radio interference	Voted 10 times
IEC/TC 8	TC 8 Related to 50160	Voted 0 time
IEC/TC 62	TC 62 Related to 60601-1-2	Voted 0 time
IEC/TC 65	TC 65 Related to 61326	Voted 0 time

IEC/TC 47 Semiconductor devices

Voted 1 time

6 Irish publications/Reviews

6.1 Publications

No new publications were issued in 2021

6.2 Reviews

The committee continue to review documents issued by IEC and CENELEC. No Irish publications were reviewed this year.

7 Work programme for 2022 onwards

It is intended to hold at least two committee meetings and attend WG meetings during 2022. The next plenary meetings of CLC/TC TC210 to be held in April 2022 virtually.

8 Additional Information

No additional information.