



NSAI

ANNUAL REPORT 2020

NSAI TECHNICAL COMMITTEES
(NSAI/ETC/RCDTF)

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1 Chairman's Statement

September 2020 saw the resumption of formal meetings of the NSAI/ETC/RCDTF and the committee has had three productive on-line meetings since. Our first meeting began with the election of a new chair, Enda Ryan. Our meetings have included matters such as the issuing of invitations for new members, formal reporting on attendance at various IEC and CENELEC meetings and discussions/decisions on voting positions. Whilst not formally reporting, the committee has been very active during the intervening years, attending and contributing to all relevant meetings and registering votes.

We were delighted to welcome a new member onto the committee and look forward to continuing our work in 2021. I would like to take the opportunity to acknowledge and thank Amanda-Jane Gainford for her assistance with re-formalising the committee and for her invaluable guidance with navigating the on-line platform.

2 Introduction

NSAI/ETC/RCDTF is responsible for monitoring the work of CLC TC23E and IEC SC23E in so far as it relates to RCDs and for providing appropriate advice to NSAI.

The Task Force is also responsible for ETCI Publication ET 214 "Guide to the Selection and Use of Residual Current Devices".

A major feature of the work is the obligation and privilege to participate with both European and international standards bodies, namely CENELEC and IEC. NSAI/ETC/RCDTF engages with CENELEC TC23E and IEC TC 23/SC 23E. NSAI/ETC/RCDTF works to ensure that Irish concerns are considered during in the creation and maintenance of standards at IEC and CENELEC level.

3 Scope of TC

NSAI/ETC/RCDTF Task Force is responsible for monitoring the work of CLC TC23E and IEC TC 23 SC23E in so far as it relates to RCDs and for providing appropriate advice to NSAI.

The Task Force is also responsible for ETCI Publication ET 214 "Guide to the Selection and Use of Residual Current Devices."

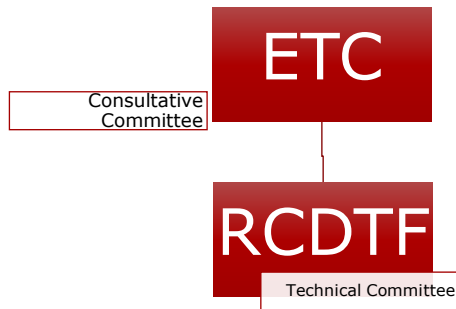
The committee mirrors the following international committees:

Committee Name	Committee Title
CLC/TC 23E	Circuit breakers and similar devices for household and similar applications
IEC/TC 23/SC 23E	Circuit-breakers and similar equipment for household use.

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 committee members for the year:

Name	Organisation	Role	Initials
Amanda-Jane Gainford	(NSAI)	SECRETARY	AJG
Enda Ryan	(Western Automation)	Chair	ER
Chris Gorman	(Western Automation)	National committee member	CG
Gareth Cake	(Western Automation)	National committee member	GC
Jan Bednarik	(ESB)	National committee member	JB
Pat Ward	(Western Automation)	National committee member	PW

5 Summary of 2020 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	2020-09-21	N0604
2	2020-10-12	N0607
3	2020-11-16	N0610

5.1.2 National Work

The committee are not developing any national work at present but are actively inputting Irish concerns into IEC & CENELEC development work at both CLC TC23E and IEC TC 23 SC23E.

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 23/SC23E/WG 7	Virtual	30 th June, 2 nd July, 13 th July	1-GC
IEC/TC 23/SC23E/WG 7	Virtual	13 th & 15 th July	1-AJG
CLC/TC23E/WG 01	Virtual	22 nd & 23 rd September	1-GC

IEC/TC23/SC23E Plenary	Virtual	7 th October	1-AJG
IEC/TC 23/SC23E/WG 2	Virtual	2 nd to 5 th November	1-GC
CLC/TC23E/WG 01	Virtual	24 th November	1-GC

5.2.2 International/Regional Work

Highlights for 2020 included:

- Re-establishing this committee and welcoming new members to the group. Members have been actively involved in IEC/TC23E/SC 23E & CLC/TC 23E.

5.2.3 International/Regional Standards Reviewed

The committee re-established in September 2020. The committee are following the work of the 13 work programmes covered by IEC/TC 23/ SC23E.

5.2.4 International/Regional Voting Results

The committee have submitted 9 non-default votes in 2020.

5.3 Regulatory Development/Update

No work in this area.

6 Irish Publications/Reviews

6.1 Publications

The committee did not publish any deliverables this year.

6.2 Reviews

The committee did not review any Irish National deliverables.

7 Work programme for 2021 onwards

The RCD TF will continue to maintain a high level of engagement with IEC(SC23E) and CENELEC(TC23). As a committee, we will continue to monitor amendments and reforms and actively engage with the standards bodies through the various working groups. A sample of the areas where work is planned can be seen below.

The TF committee will continue to hold meetings at least once per quarter and continue to convene more frequently, as needs arise, in advance of official WG meetings to discuss, propose and prepare comments on relevant issues.

The TF will continue its practice of circulating proposed comments and amendments prior to our scheduled committee meetings to enable thorough engagement by our members and the efficient running of meetings and ensure timely voting.

As a committee we will be actively engaged in, but not limited to, developments in the IEC, CENELEC and other National matters through the relevant working groups dealing with the associated standards, as follows:

7.1 IEC:

7.1.1 IEC/TC23/SC23E/WG2:

Shock-hazard protective devices, arc-fault detection devices, residual current monitors and other protection devices.

To prepare and update standards for:

- *Residual Current Devices of rated currents not exceeding 125 A and rated voltages not exceeding 440 V for protection against electric shock in household and similar installations,*
- *Group Safety Publication for residual current devices,*
- *Residual Current Monitors (RCM) of rated currents not exceeding 125 A and rated voltages not exceeding 440 V for household and similar installations,*
- *Arc Fault Detection Devices (AFDD) of rated currents not exceeding 125 A and rated voltages not exceeding 440 V for household and similar installations.*
- *Guidance for additional functions for protection devices*
- *Automatic reclosing devices (ARD) of rated currents not exceeding 125 A and rated voltages not exceeding 440 V for household and similar installations,*
- *Power frequency overvoltage protection devices (POP) of rated currents not exceeding 125 A and rated voltages not exceeding 440 V for household and similar installations.*

IEC 61008 - Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) - Part 1: General rules (RCCBs)

IEC 61009 - Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs) - Part 1: General rules (RCBOs)

IEC 61540 - Standard for Portable Residual Current Devices

IEC 61543 - Standard for EMC tests for RCDs

IEC 62020 - Standard for Residual Current Monitors

IEC 62606 - General requirements for Arc Fault Detection Devices

IEC 62640 - Residual current devices with or without overcurrent protection for socket-outlets for household and similar uses

7.1.2 IEC/TC23/SC23E/WG7:

Protective devices for the charging of electrical vehicle

To prepare standards for protective devices for protection during the charging of electrical vehicle: - IEC 62752 (this standard is prepared in mode 4 cooperation with ISO TC22/SC37).

- IEC 62752 Edition 2 - In-cable control and protection device for mode 2 charging of electric road vehicles (IC-CPD)

7.1.3 IEC/TC23/SC23E/WG8:

Protective devices for battery powered vehicle applications

To prepare standards for protective devices for battery powered vehicle and others similar applications - To maintain IEC 62335.

- IEC62955 – Residual direct current detecting device (RDC-DD) to be used for mode 3 charging of electric vehicles

7.2 CENELEC

7.2.1 CLC/TC23E/WG1

This WG mirrors the development of the IEC standards mentioned above.

- EN 61008 - Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) - Part 1: General rules (RCCBs)
- EN 61009 - Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs) - Part 1: General rules (RCBOs)
- EN 61540 - Standard for Portable Residual Current Devices
- EN 61543 - Standard for EMC tests for RCDs
- EN 62020 - Standard for Residual Current Monitors
- EN 62606 - General requirements for Arc Fault Detection Devices
- HD 62640 - Residual current devices with or without overcurrent protection for socket-outlets for household and similar uses

7.3 National Work Item

7.3.1 NSAI Publications

ET 214 "Guide to the selection and use of Residual Current Devices".

The RCD TF has undertaken to revise and update this document for re-publication during 2021.

8 Additional Information



FIGURE 1: MS TEAMS MEETING - COMMITTEE MEMBERS