ANNUAL REPORT 2023

NSAI TECHNICAL COMMITTEES (NSAI/ETC/RCDTF - RESIDUAL CURRENT DEVICES TASK FORCE)

Contents

1 Chair Statement

The work of the NSAI/ETC/RCDTF continued throughout 2023 with our committee meeting four times on-line during the year. Our meetings included matters such expansion of the membership, formal reporting on attendance at various IEC and CENELEC meetings, matters arising from same and discussions/decisions on voting positions. Throughout the year we continued to vote and send representatives to all relevant IEC and CENELEC on-line meetings, where the views of the committee were well represented. In April 2023 a new chair was agreed.

2024 promises to be another very busy year and we look forward to formulating and representing the Irish position on a range of technical matters.

The committee would like to take the opportunity to thank Amanda-Jane Gainford for her tireless and good-humoured assistance throughout the year and we look forward to her support for the coming year.

Donal O'Brien (Chair of NSAI ETC RCDFT)

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.

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 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.

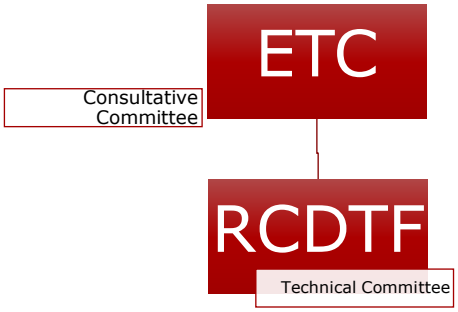
The committee mirrors the following international committees:

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 members of the committee for the year:

Organisation	Role
NSAI	**SECRETARY**
Littel Fuse	**Chair**
Western Automation	National committee member
ESB	National committee member
Siemens	National committee member
EV HACS	National committee member

Western Automation was sold to Littel Fuse during 2023.

Mr. P. Ward from Western Automation retired from Standardisation in February 2023. NSAI thank Mr. Ward for all the time and expertise he contributed to the standardisation work during his time involved with NSAI.

5 Summary of 2023 Activities

5.1 National

5.1.1 Meetings

Committee Members attended the following virtual National meetings in NSAI:

Meeting No.	Date	Minutes Reference
1	2023/02/20	N0667
2	2023/04/03	N0675
3	2023/07/10	N0679
4	2023/11/13	N0683

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 TC23E WG 8	Virtual	2023/06/16	2
IEC TC23E WG 8	Virtual	2023/04/17-18	1
IEC TC23E WG 8	Virtual	2023/01/13	1

5.2.2 International/Regional Work

Highlights for 2023 included:

- The appointment of a new Chair.
- Assisting NSAI/ETC/TC 02 in relation to queries regarding RCDs in I.S. 10101:2020.

5.2.3 International/Regional Standards Reviewed

The committee are following the work programmes covered by IEC/TC 23/ SC23E.

5.2.4 International/Regional Voting Results

The committee have actively voted on 5 documents in 2023 and have submitted 2 sets of comments.

Active votes were broken down into 4 IEC documents & 1 CENELEC documents.

Body	Vote Reference	Comments Submitted	Decision	WIID
IEC	23E/1314/CDV	Yes	Approve	
IEC	23E/1316/NP	No	Approve	
IEC	23E/1317/DC	No	Approve	
IEC	23E/1322/AC	No	Abstain	
CLC	prEN IEC 62752:2023	Yes	Approve	71145

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

No National documents to be reviewed.

7 Work programme for 2024 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.*

IEC61008 - Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) - Part 1: General rules (RCCBs)

IEC61009 - Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs) - Part 1: General rules (RCBOs)

IEC61540 - Standard for Portable Residual Current Devices

IEC61543 - Standard for EMC tests for RCDs

IEC62020 - Standard for Residual Current Monitors

IEC62606 - General requirements for Arc Fault Detection Devices

IEC62640 - 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.

- EN61008 - Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) - Part 1: General rules (RCCBs)
- EN61009 - Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs) - Part 1: General rules (RCBOs)
- EN61540 - Standard for Portable Residual Current Devices
- EN61543 - Standard for EMC tests for RCDs
- EN62020 - Standard for Residual Current Monitors
- EN62606 - General requirements for Arc Fault Detection Devices
- HD62640 - 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

None

8 Additional Information

No additional information.