



NSAI

ANNUAL REPORT 2022

NSAI TECHNICAL COMMITTEES
(NSAI/ETC/RCDTF)

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1 Statement

The work of the NSAI/ETC/RCDTF continued throughout 2022 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. The committee Chair has changed roles within industry and as such has stepped down from the committee. Two new companies are joining the committee in 2023 and it is hoped a new chair will be found among the members of the committee.

2023 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 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.

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". This publication was withdrawn on the 31st of July 2022 in line with the ET 101 to I.S. 10101 transition.

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."

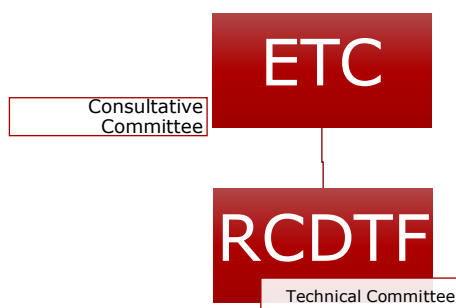
The committee mirrors the following international committees:

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 members of the committee for the year:

Organisation	Role
NSAI	SECRETARY
Western Automation	Chair
Western Automation	National committee member
ESB	National committee member
Siemens	National committee member

5 Summary of 2022 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	24 th January 2022	N0644
2	4 th April 2022	N0648
3	13 th June 2022	N0653
4	17 th October 2022	N0661

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
CLC TC23E WG 01	Virtual	10 th & 11 th February 2022	1
IEC TC23E WG 7	Virtual	9 th March 2022	1

5.2.2 International/Regional Work

Highlights for 2022 included:

- Expanding the membership of the committee

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 2 documents in 2022 and have submitted 1 sets of comments.

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

Body	Vote Reference	Comments Submitted	Decision	WIID
IEC	23E/1248/Q	Yes	Approve	
CLC	EN 62423:2012/prAB	No	Approve	74543

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 reviews conducted however the withdrawal of ET 214 took place on the 31st of July 2022 in line with the ET 101 to I.S 10101 transition.

7 Work programme for 2023 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.