# Instruction to District Health Boards Pursuant to Regulation 110 of the Electricity (Safety) Regulations 2010

Pursuant to Regulation 110 of the Electricity (Safety) Regulations 2010, I, Mark Stephen Wogan, Manager, Energy Safety – High Hazards, Energy and Public Safety, WorkSafe New Zealand (WorkSafe), give the following instruction.

**Instruction**

**1. Commencement**

This instruction takes effect on the day it is published in the *New Zealand Gazette* ("Commencement date").

**2. Purpose**

The purpose of this instruction is to protect persons from possible injury from electricity through New Zealand District Health Boards' (DHBs) use of certain residual current devices in medical installations, required by DHBs in their response to the COVID-19 pandemic.

**3. Application**

a. This instruction applies to all DHBs.

b. This instruction applies to 10 mA residual current devices (RCDs) supplied by Schneider Electric (NZ), identified in the table below, that are installed in medical installations on or after the Commencement date ("affected RCDs"):

| Brand | References | Description |
|---|---|---|
| Clipsal | ML2025RCD10C-BG | SOCK SWT TWIN 10A RCD 10MA |
| Clipsal | ML2025RCD10-DB | SOCK SWT TWIN 10A RCD 10MA |
| Clipsal | ML2025RCD10-RD | SOCK SWT TWIN 10A RCD 10MA |
| Clipsal | ML2025RCD10-WE | SOCK SWT TWIN 10A RCD 10MA |
| Clipsal | ML2031RCD10-DB | RCD 2P 10MA 20A 250V |
| Clipsal | ML2031RCD10-RD | RCD 2P 10MA 20A 250V |
| Clipsal | ML2031RCD10-WE | RCD 2P 10MA 20A 250V |
| Clipsal | ML2031VRCD10-DB | RCD 2P 10MA 20A 250V |
| Clipsal | ML2031VRCD10-RD | RCD 2P 10MA 20A 250V |
| Clipsal | ML2031VRCD10-WE | RCD 2P 10MA 20A 250V |
| Clipsal | C2025RCD10-WE | SOCKET SWT TWIN 10A RCD 10MA |
| Clipsal | 2031RCD10-WE | SWITCH 1GANG 20A 240V RCD10MA |
| Clipsal | 2031VRCD10-DB | SWITCH 1GANG VERT 240V RCD10MA |
| Clipsal | 2031VRCD10-RD | SWITCH 1GANG VERT 240V RCD10MA |
| Clipsal | 2031VRCD10-WE | SWITCH 1GANG VERT 240V RCD10MA |
| PDL | PDL695RCD10WH | 695RCD-10 WH TWIN SW SKT OUT |

c. For the purpose of this instruction, "medical installation" is defined as an installation or part installation intended for use with electrical medical devices.

**4. Instruction**

**DHBs** must:

a. ensure that each of the affected RCDs is tested daily using the inbuilt test button;

b. record the daily test result for each RCD;

c. ensure that each of the affected RCDs is tested monthly, and the monthly test results recorded for each RCD, using a purpose built RCD tester that checks all the functions of a 10 mA RCD, including the following testing:

   i. At the rating of the RCD (I Δ n);

   ii. At the half rated tripping current of the RCD (½ I Δ n);

   iii. At the full rated tripping current of the RCD (I Δ n);

   iv. At five times the rated tripping current of the RCD (5 x I Δ n);

   v. Ramp test; and

d. ensure that tests carried out in accordance with paragraph c. are:
    i. measured at 0° and 180°;
    ii. undertaken with a pulsed waveform (Type A(DC sensitive) RCD test); and
e. ensure that when an affected RCD is removed from the medical installation, or, in the DHB's view, ceases to be required for the COVID-19 pandemic, whichever occurs first, it is not reused.

**5. Reporting**

DHBs must advise Schneider Electric (NZ) (as supplier of the affected RCDs) on a monthly basis that the testing required by this instruction has been undertaken, and provide a copy of the test record for each affected RCD for that period. This is to include a detailed description of where the RCD is physically located.

**6. Reasons for Instruction**

WorkSafe New Zealand has reasonable grounds to believe that there may be increased risk of danger that may result in serious harm to patients if an affected RCD does not trip at the rated current.

**7. Expiry**

a. This instruction shall expire six months after the commencement date.
b. WorkSafe New Zealand may amend or revoke this instruction sooner in full or in part (by notice in the *New Zealand Gazette*).

Dated at Wellington this 31st day of March 2020.

MARK WOGAN, Manager – Energy Safety, High Hazards, Energy and Public Safety, WorkSafe New Zealand.

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