



Canadian Standards Association  
Mississauga, Ontario  
**To the Part I Committee**

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Subject No. 3064

Chair: S.J. Coles

Date: December 8, 2004

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Title: Use of Neutral Grounding Devices, Rule 14-102

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**Submitted by:** Robert Hart of IPC Resistors Inc., 7615 Kimbel St. Unit 1, Mississauga, Ontario, L5S 1A8, Tel: (905) 673-1553, Fax: (905) 673-8472 on April 9, 2002.

**Proposal:** Change Rule 14-102 to add a preamble as follows:

**14-102 Ground Fault Protection (see Appendix B).** Where a system does not contain a neutral grounding device as defined by Rules 10-1100 to 10-1108 and is solidly grounded the following rules will apply:

- (1) Ground fault protection.....

**Reasons for Request:** There is a great deal of confusion in the field when it comes to ground fault protection and the need to de-energize all circuits. We are often in the position of explaining to others that neutral grounding devices can be used which meet with the requirements of Rules 10-1100 to 10-1108 because many people look at the existing Rule 14-102 and do not realize that there are alternatives to solidly grounded systems and the need to de-energize all normally ungrounded conductors of a faulted circuit.

**Chair's Comments:** This could be a helpful clarification, but cross-reference to other rules can be dangerous if rules change. What do others feel?

**First Round Ballot Results**

Agree	4
Agree with comments	3
Disagree	2

Subcommittee Members Comment

1. A preference for Rules that do not reference other Rule Numbers in another Section in case of number changes.
2. Cross reference to Section 10 is necessary for clarification.

3. Title should be changed to: 14-102 Ground Fault Protection (see Appendix B) when an electrical power distribution system is solidly grounded, the following rules shall apply.
4. There is a case for the installation of neutral grounding devices to be moved from Section 10 to Section 14.

Subcommittee Members Objections

5. Change Title to: 14-102 Ground Fault Protection (see Appendix B) where a system does not contain a neutral grounding device as provided for in Section 10, and is solidly grounded the following rules will apply:
6. Change Title to: 14-102 Ground Fault Protection (see Appendix B) except where the system contains a neutral grounding device installed per Section 10, the following rules apply:

Chair's Comments

Moving the rules concerning the installation of neutral grounding devices to Section 14 maybe beneficial but is beyond the scope of this proposal.

Most Members feel clarification is needed to ensure that Rule 14-102 does not apply to systems where neutral grounding devices are installed. Members felt that a reference to Section 10 would clarify the application of Rule 14-102.

**Chair's Proposal 2<sup>nd</sup> Round (Revised)**

TITLE

14-102 Ground Fault Protection for solidly grounded circuits (see Appendix B)

Add Subrule 14-102(1)(c) to read

~~Subrules 14-102-(1)(a) and (1)(b) do not apply to circuits with neutral grounding devices installed in accordance with Section 10.~~

14-102(c) This Subrule does not apply to circuits with neutral grounding devices installed in accordance with Section 10.

**Subcommittee Deliberation:**

SECOND ROUND (REVISED) RESULTS:-

Agree with Chair's second round proposal 7

Agree with Chair's second round proposal  
( with comments) 1

Disagree with second round proposal

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**Subcommittee Recommendation**

14-102 title change to:-

14-102 Ground Fault Protection for solidly grounded circuits(see Appendix B )

Add Subrule 14-102(1) (c) to read as follows:-

14-102(1)(c) This Subrule does not apply to circuits with neutral grounding devices installed in accordance with Section 10.