

Maintenance of electrical systems



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| B. Cochrane | Capital Power Strathmore, Alberta, Canada <i>Category: User Labour</i> | |
| R. J. Dupuis | AES Engineering Victoria, British Columbia, Canada <i>Category: General Interest</i> | |
| D. Ferguson | International Association of Machinists & Aerospace Workers (IAMAW) Toronto, Ontario, Canada <i>Category: User Labour</i> | |

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| L. Gallagher | Utilities Standards Forum Guelph, Ontario, Canada | <i>Non-voting</i> |
| P. S. Ghosh | BBA Calgary, Alberta, Canada <i>Category: General Interest</i> | |
| S. Gray | Eaton Delta, British Columbia, Canada <i>Category: Producer Interest</i> | |
| R. Grylls | Magna IV Engineering Edmonton, Alberta, Canada <i>Category: Producer Interest</i> | |
| K. Heid | NETA (InterNational Electrical Testing Association) Portage, Michigan, USA <i>Category: General Interest</i> | |
| K. Hryniw | Ministry of Energy, Mines and Petroleum Resources Victoria, British Columbia, Canada <i>Category: Regulatory Authority</i> | |
| R. J. Kelly | Oasis Consulting Ingleside, Ontario, Canada <i>Category: User Labour</i> | |
| C. Knight | Canadian Coast Guard Base Sea Island Richmond, British Columbia, Canada | <i>Non-voting</i> |
| G. Kooner | Vancouver Airport Authority Richmond, British Columbia, Canada <i>Category: Regulatory Authority</i> | |
| R. Larivée | Avia Rupta Solutions Inc. Laval, Québec, Canada <i>Category: User Management</i> | |
| A. Meek | Algonquin College Ottawa, Ontario, Canada | <i>Non-voting</i> |
| S. Miller | UE Systems, Inc. Elmsford, New York, USA | <i>Non-voting</i> |

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|-----------------------|--|-------------------|
| R. Mitchell | Electrical Safety Authority Mississauga, Ontario, Canada <i>Category: Regulatory Authority</i> | |
| S. Nair | WorkSafeBC Richmond, British Columbia, Canada <i>Category: Regulatory Authority</i> | |
| B. Parmar | Stantec Consulting Ltd. Toronto, Ontario, Canada | <i>Non-voting</i> |
| M. Robinson | IRISS Inc. Bradenton, Florida, USA <i>Category: Producer Interest</i> | |
| A. Sabih | Eleqron inc. Calgary, Alberta, Canada | <i>Non-voting</i> |
| J. Sirros | FM Global Montréal, Québec, Canada | <i>Non-voting</i> |
| D. Smith | Canada Training Group Turtleford, Saskatchewan, Canada | <i>Non-voting</i> |
| H. Soloumah | EXP Oakville, Ontario, Canada <i>Category: User Management</i> | |
| R. Sudan | RS Breakers and Controls Inc. Mississauga, Ontario, Canada | <i>Non-voting</i> |
| C. Taran | IBEW First District Gimli, Manitoba, Canada <i>Category: User Labour</i> | |
| M. Weiss | Pieridae Energy Ltd. Calgary, Alberta, Canada <i>Category: User Labour</i> | |
| D. Wiersema | Schneider Electric Winnipeg, Manitoba, Canada <i>Category: Producer Interest</i> | |
| K. A. Wycislik | Cenovus Energy Inc. Calgary, Alberta, Canada <i>Category: User Management</i> | |

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Preface

This is the third edition of CSA Z463, *Maintenance of electrical systems*. It supersedes the previous edition published in 2018 and the first edition, published in 2013 as a guideline.

This Standard specifies basic requirements on maintenance of electrical systems based on principles of loss control and safety management systems. It also provides guidance on the selection of reference standards, electrical equipment-specific maintenance procedures, and the assessment of electrical equipment to verify correct function.

In addition to converting many previous advisory criteria into mandatory requirements, the following is an overview of the major revisions from the 2018 edition:

- a) The Scope has been modified to indicate that the Standard does not currently apply to maintenance of electrical and communications supply equipment and systems owned by electric and communication utilities. These requirements are covered by CSA C22.3 No. 11.
- b) Definitions have been updated in accordance with the 2024 edition of the *Canadian Electrical Code, Part I*, as well as other CSA Group, IEEE, NEMA, and NETA standards.

This Standard was prepared by the Technical Committee on Electrical System Maintenance, under the jurisdiction of the Strategic Steering Committee on Occupational Health and Safety, and has been formally approved by the Technical Committee. Because of this Standard's close association with the *Canadian Electrical Code*, it has also been reviewed by the Strategic Steering Committee on Requirements for Electrical Safety (SCORES).

This Standard has been developed in compliance with Standards Council of Canada requirements for National Standards of Canada. It has been published as a National Standard of Canada by CSA Group.

Notes:

- 1) *Use of the singular does not exclude the plural (and vice versa) when the sense allows.*
- 2) *Although the intended primary application of this Standard is stated in its Scope, it is important to note that it remains the responsibility of the users of the Standard to judge its suitability for their particular purpose.*
- 3) *This Standard was developed by consensus, which is defined by CSA Policy governing standardization — Code of good practice for standardization as “substantial agreement. Consensus implies much more than a simple majority, but not necessarily unanimity”. It is consistent with this definition that a member may be included in the Technical Committee list and yet not be in full agreement with all clauses of this Standard.*
- 4) *To submit a request for interpretation of this Standard, please send the following information to inquiries@csagroup.org and include “Request for interpretation” in the subject line:*
 - a) *define the problem, making reference to the specific clause, and, where appropriate, include a graphical image;*
 - b) *provide an explanation of circumstances surrounding the actual field condition; and*
 - c) *where possible, phrase the request in such a way that a specific “yes” or “no” answer will address the issue.*

Committee interpretations are processed in accordance with CSA Directives and guidelines governing standardization and are available on the Current Standards Activities page at standardsactivities.csagroup.org.

- 5) *This Standard is subject to review within five years from the date of publication. Suggestions for its improvement will be referred to the appropriate committee. To submit a proposal for change, please send the following information to inquiries@csagroup.org and include “Proposal for change” in the subject line:*
 - a) *Standard designation (number);*
 - b) *relevant clause, table, and/or figure number;*
 - c) *wording of the proposed change; and*
 - d) *rationale for the change.*