AS 2467:2025

Australian STANDARD®

STANDARDS Australia

Maintenance of electrical switchgear —
Code of practice

AS 2467:2025

This Australian Standard® was prepared by EL-007, Power Switchgear. It was approved on behalf of Standards Australia's Standards Development and Accreditation Committee on 28 April 2025.

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The following are represented on Committee EL-007:

Australian Industry Group
CIGRE Australia
Electric Energy Society of Australia
Electrical Trade Union (Vic)
Energy Networks Australia
Engineers Australia
Institute of Electrical Inspectors
The University of Queensland
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Originated as AS CC9—1965.
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How to read this Standard

This page explains the meaning of the language and structure of this Standard.

Refer to Standards Australia's Standardisation Guide 006 for more details about drafting rules.

Australian and Australian/New Zealand Standards are voluntary unless they are referenced in legislation or called up in contracts.

Requirements

To conform to a Standard, all requirements in the Standard need to be met.

A requirement is any statement in the Standard which uses the word "shall".

Recommendations, permissions and possibilities

The following words are commonly used in Standards, but statements using them do not have to be followed to conform to the Standard:

(a) "should" means that something is recommended.

(b) "may" means that something is permitted.

(c) "can" means that something is possible.

Structure of Standards

A Standard always has the following parts:

(i) The Preface states who developed the Standard, what the Standard is aiming to do, and how it relates to other documents.

(ii) The Scope states what the Standard is about, what it covers and what it does not cover.

(iii) The Normative references clause lists other documents that are referenced in the Standard as part of requirements.

(iv) The Terms and definitions clause defines important terms to help with understanding the Standard.

A Standard may also include other parts, such as the following:

(1) A normative appendix sets additional requirements that need to be conformed to.

(2) An informative appendix provides additional information or guidance. They usually do not contain requirements. If an informative appendix does contain requirements, the Standard will explain when those requirements apply.

(3) A Bibliography lists documents referenced in the Standard but not as part of requirements.

Many Standards include notes. Notes provide recommendations and/or guidance only. They never contain requirements.

Preface

This Standard was prepared by the Standards Australia Committee EL-007, Power Switchgear, to supersede AS 2467—2008.

The objective of this document is to provide basic recommendations, good work practices, and requirements for the safety of personnel in proximity to or engaged in the maintenance of electrical switchgear and provide detailed recommendations for specific types of switchgear.

This edition has been comprehensively reviewed and updated to align with current circumstances and practices.

The terms “normative” and “informative” are used to define the application of the Appendix to which they apply. A normative Appendix is an integral part of a standard, whereas an informative Appendix is only for information and guidance.

Contents

Introduction

Electrical switchgear, by the nature of the service it renders, does not automatically call for the maintenance attendance which is necessary to always ensure its effective functioning. Its normally quiescent state does not generally draw attention to incipient faults or deterioration or to the danger resulting from neglect.

It follows, therefore, that only an organized system of routine maintenance planned to include all necessary details can ensure the continued safe and satisfactory operation of an electrical system with a minimum risk of breakdown and the consequent interruption of supply.

The electricity supply system, including incidents with electrical switchgear, has resulted in many fatalities, and many serious injuries, each year. These incidents have resulted in severe burns, internal bleeding, and damage to lungs, eyes, heart, internal organs, and hearing.

Adequate maintenance is critical to reducing the likelihood of these safety risks as well as ensuring reliable and acceptable operation. Adequate maintenance relies on many aspects such as safe work method statements, legislation, and the use of trained and competent personnel.

NOTES

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Section 1 Scope and general

1.1 Scope

The objective of this document is to provide basic recommendations, good work practices, and requirements for the safety of personnel in proximity to or engaged in the maintenance of electrical switchgear and provide detailed recommendations for specific types of switchgear.

This document applies to electrical switchgear above 1 000 V a.c. and 1 500 V d.c.

NOTE 1 At voltages above 145 kV, the design of equipment, system operations and maintenance requirements and practices may differ significantly from those operating at voltages up to this level. However, the principles formulated in this document, especially those related to the safety of personnel, are mostly applicable at the higher voltages.

NOTE 2 While the design, system operations, and maintenance requirements and practices for equipment operating above 145 kV may differ significantly from those operating at voltages below this level, the principles formulated in this document, especially those related to the safety of personnel, may be applicable at the lower voltages.

This document does not apply to live work.

This document does not apply to the maintenance of electrical switchgear that is —

(a) of sealed construction, intended only to be returned to the manufacturer for adjustment or repair;

(b) used in explosive atmospheres and in coal mines; or

(c) used in live (or live-line) electrical work techniques.

1.2 Normative references

AS/NZS 60137, *Insulated bushings for alternating voltages above 1000 V*

AS 60422, *Mineral insulating oils in electrical equipment — Supervision and maintenance guidance*

AS 2067, *Substations and high voltage installations exceeding 1 kV a.c.*

AS/NZS 3000, *Electrical installations*

AS/NZS 3160, *Approval and test specification—Hand-held portable electric tools*

AS/NZS 60598.2.8, *Luminaires, Part 2.8: Particular requirements—Handlamps*

IEC 60480, *Specifications for the re-use of sulphur hexafluoride (SF_6) and its mixtures in electrical equipment*

1.3 Terms and definitions

For this document, the following terms and definitions apply.

1.3.1
acceptable condition
condition in which an item performs its required function or meets the relevant specification

Note 1 to entry: See Figure 1.3.