

Australian/New Zealand Standard™

Safety of laser products

Part 5: Manufacturer's checklist for AS/NZS 2211.1



AS/NZS 2211.5:2006

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee SF-019, Personal Protection Against Laser Radiation. It was approved on behalf of the Council of Standards Australia on 19 January 2006 and on behalf of the Council of Standards New Zealand on 3 February 2006.
This Standard was published on 17 February 2006.

The following are represented on Committee SF-019:

Australasian Faculty of Occupational Medicine
Australian Chamber of Commerce and Industry
Australian Defence Force Academy
Australian Dental Association
Australian Radiation Laboratory
Department of Defence (Australia)
National Radiation Laboratory New Zealand
Optus Communications
Queensland Health
Queensland University of Technology
Royal Australian College of Ophthalmologists
Telecom New Zealand
Telstra Corporation
WorkCover New South Wales

Keeping Standards up-to-date

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about joint Australian/New Zealand Standards can be found by visiting the Standards Web Shop at www.standards.com.au or Standards New Zealand web site at www.standards.co.nz and looking up the relevant Standard in the on-line catalogue.

Alternatively, both organizations publish an annual printed Catalogue with full details of all current Standards. For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national Standards organization.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Please address your comments to the Chief Executive of either Standards Australia or Standards New Zealand at the address shown on the back cover.

This Standard was issued in draft form for comment as DR 05538.

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

RECONFIRMATION

OF

AS/NZS 2211.5:2006

Safety of laser products

Part 5: Manufacturer's checklist for AS/NZS 2211.1

RECONFIRMATION NOTICE

Technical Committee SF-019 has reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

Certain documents referenced in the publication may have been amended since the original date of publication. Users are advised to ensure that they are using the latest versions of such documents as appropriate, unless advised otherwise in this Reconfirmation Notice.

Approved for reconfirmation in accordance with Standards Australia procedures for reconfirmation on 7 October 2015.

Approved for reconfirmation in New Zealand on behalf of the Standards Council of New Zealand on 4 November 2016.

The following are represented on Technical Committee SF-019:

Australasian Faculty of Occupational & Environmental Medicine
Australian Dental Association
Australian Radiation Protection and Nuclear Safety Agency
Defence Materiel Organisation
Department of Defence
Electronics Industry Association
Institute of Environmental Science and Research
NSW Business Chamber
Royal Australian and New Zealand College of Ophthalmologists
Telecom New Zealand
Telstra Corporation

NOTES

Australian/New Zealand Standard™

Safety of laser products

Part 5: Manufacturer's checklist for AS/NZS 2211.1

First published as AS/NZS 2211.5:2006.

COPYRIGHT

© Standards Australia/Standards New Zealand

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher.

Jointly published by Standards Australia, GPO Box 476, Sydney, NSW 2001 and Standards New Zealand, Private Bag 2439, Wellington 6020

ISBN 0 7337 7267 6

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee SF-019, Personal Protection Against Laser Radiation.

The Standard is identical with and has been reproduced from IEC/TR 60825-5 Ed.2.0 (2005), *Safety of laser products, Part 5: Manufacturer's checklist for IEC 60825-1*.

The objective of this Standard is to provide a checklist, intended for use by manufacturer's of laser products and their agents to establish that each new or modified design complies with the requirements of AS/NZS 2211.1.

The terms 'normative' and 'informative' have been used in this Standard to define the application of the annex to which they apply. A 'normative' annex is an integral part of a Standard, whereas an 'informative' annex is only for information and guidance.

As this Standard is reproduced from an International Standard, the following applies:

- (a) Its number appears on the cover and title page while the International Standard number appears only on the cover.
- (b) In the source text, 'this technical report' should read 'this Australian/New Zealand Standard'.
- (c) A full point should be substituted for a comma when referring to a decimal marker.

References to International Standards should be replaced by references Australian Standards, as follows:

<i>Reference to International Standard</i>		<i>Australian/New Zealand Standard</i>	
IEC		AS/NZS	
60825	Safety of laser products	2211	Safety of laser products
60825-1	Part 1: Equipment classification, requirements and user's guide	2211.1	Part 1: Equipment classification, requirements and user's guide (IEC 60825-1:2001, MOD)

CONTENTS

Page

SECTION ONE – GENERAL

1	Scope (1.1).....	1
2	Object (1.2)	1
3	Normative references.....	1
4	Definitions	1
5	Identification	2

SECTION TWO – MANUFACTURING REQUIREMENTS

6	Tests	3
7	Classification	3
8	Labelling for laser radiation (5).....	4
9	Engineering specifications	7
10	Other informational requirements	14

Annex A (normative)	Classification procedure.....	18
---------------------	-------------------------------	----

Annex B (informative)	Arrangement of the checklist – rationale.....	19
-----------------------	---	----

AUSTRALIAN/NEW ZEALAND STANDARD

Safety of laser products

Part 5:

Manufacturer's checklist for AS/NZS 2211.1

SECTION ONE – GENERAL

NOTE Numbers shown in parenthesis refer to the relevant clause in IEC 60825-1.

1 Scope (1.1)

This technical report is applicable to laser products as described in IEC 60825-1.

2 Object (1.2)

The checklist is intended for use by manufacturers of laser products and their agents to establish that each new or modified design complies with the requirements of IEC 60825-1: 1993 and its amendments 1 and 2. The checklist is not a substitute for IEC 60825-1. It is necessary to use IEC 60825-1 in conjunction with the checklist, as relevant clauses and subclauses are referred to in the text.

The layout of the checklist is intended only as a guide. Manufacturers and examiners are encouraged to produce their own document, omitting questions and clauses that are not relevant to the types of product under examination, but noting in the appropriate positions the numbers of such clauses stating, for example: "subclause 4.3.2: Question omitted – not applicable".

The manufacturer should ensure that the examiner is a person competent in the inspection and classification of laser products.

3 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60825-1:1993, *Safety of laser products – Part 1: Equipment classification, requirements and user's guide*¹
Amendment 1 (1997)
Amendment 2 (2001)

4 Definitions

The definitions of IEC 60825-1 apply.

Throughout this document, the abbreviation N.A, means "not applicable".

¹ A consolidated edition of IEC 60825-1 exists consisting of edition 1 (1993) and its Amendments 1 (1997) and 2 (2001).

5 Identification

5.1 Details of examiner

Identification of the person responsible for examining and classifying the product under inspection:

Name: _____ Position: _____
print full name print full title

If the above named person is not an employee of the manufacturer of the laser product to be examined, state the details of the examiner's employer or organization:

Organization:

Address:

5.2 Laser product

Details of product to be inspected:

5.2.1 Is the product a component intended to be incorporated in another laser product ? YES/NO

Manufacturer:

Address:

Name and/or model number of laser product:

Serial number of laser product:

Date of manufacture (if known): _____ Date of examination: _____