

TECHNICAL

REPORT

IEC/TR 62348

Edition 2.0 2012-12



Assessment of the impact of the most significant changes in Amendment 1 to IEC 60601-1:2005 and mapping of the clauses of IEC 60601-1:2005 to the previous edition



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INTERNATIONAL ELECTROTECHNICAL COMMISSION



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CONTENTS

FC	REWO)RD	6
IN	TRODI	JCTION	8
1	Scop	e	9
2	Normative references		
3	Terms and definitions		
4	Asse	ssment of the changes in Amendment 1:2012	9
5	Changes impacting many users of the standard		13
	5.1	Updated normative references (Clause 2) [Moderate impact]	13
	5.2	Definition and rationale for EXPECTED SERVICE LIFE (Definition 3.28 and rationale for 4.4) [Moderate impact]	13
	5.3	Restructuring of RISK MANAGEMENT (Subclause 4.2) [Significant impact]	13
	5.4	Application of ESSENTIAL PERFORMANCE (Subclause 4.3) [Significant impact]	13
	5.5	Revision to the concept of equivalent safety (Subclause 4.5) [Significant impact]	14
	5.6	Requirements for parts that contact the PATIENT (Subclause 4.6) [Significant impact]	14
	5.7	Steady-state measurement of input of the ME EQUIPMENT or ME SYSTEM (Subclause 4.11) [Moderate impact]	14
	5.8	Simultaneous fault testing (Subclause 5.1) [Moderate impact]	14
	5.9	SUPPLY MAINS test characteristics (Subclause 5.5 a)) [Significant impact]	15
	5.10	Humidity preconditioning (Subclause 5.7) [Significant impact]	15
	5.11	Actuating mechanisms (Subclause 5.9.2.3) [Moderate impact]	15
	5.12	Legibility of markings (Subclause 7.1.2) [Moderate impact]	15
	5.13	Identification of ME EQUIPMENT, parts and ACCESSORIES (Subclauses 7.2.1 and 7.2.4) [Significant impact]	15
	5.14	Marking of fuses, THERMAL CUT-OUTS and OVER-CURRENT RELEASES (Subclause 7.3.4) [Moderate impact]	15
	5.15	Marking of stand-by control (Subclause 7.4.2) [Moderate impact]	15
	5.16	Use of safety signs (Subclause 7.5) [Moderate impact]	16
	5.17	General requirements for ACCOMPANYING DOCUMENTS (Subclause 7.9.1) [Significant impact]	16
	5.18	Disposal of waste (Subclause 7.9.2.15) [Moderate impact]	16
	5.19	Unique version identification (Subclauses 7.9.2.19 and 7.9.3.1) [Moderate impact]	16
	5.20	Disclosure of ESSENTIAL PERFORMANCE (Subclause 7.9.3.1) [Significant impact]	16
	5.21	Change to the fundamental rule of protection against electric shock (Subclause 8.1 b)) [Moderate impact]	16
	5.22	Use of Y capacitors as a MEANS OF PROTECTION (Subclauses 8.5.1.2 and 8.5.1.3) [Moderate impact]	16
	5.23	Requirements for impedance and current-carrying capabilities (Subclause 8.6.4) [Moderate impact]	17
	5.24	Allowable values of LEAKAGE CURRENTS that can flow in a FUNCTIONAL EARTH CONDUCTOR (Subclause 8.7.3) [Substantial impact]	17
	5.25	Measurement of the EARTH LEAKAGE CURRENT and current in functional earth connection (Subclause 8.7.4.5) [Moderate impact]	17
	5.26	Clarification of the insulation to be tested (Subclause 8.8.1) [Significant impact]	17

	5.27	Spacing for one MEANS OF OPERATOR PROTECTION for a WORKING VOLTAGE of 25 V r.m.s. (Table 16) [Moderate impact]	17
	5.28	Measurement of CREEPAGE DISTANCES AND AIR CLEARANCES (Subclause 8.9.4) [Moderate impact]	17
	5.29	Spillage on ME EQUIPMENT and ME SYSTEMS (Subclause 11.6.3) [Moderate impact]	17
	5.30	Cleaning and disinfection of ME EQUIPMENT and ME SYSTEMS (Subclause 11.6.6) [Moderate impact]	18
	5.31	Interruption of the power supply / SUPPLY MAINS to ME EQUIPMENT or ME SYSTEM (Subclauses 11.8 and 16.8) [Significant impact]	18
	5.32	Emissions, deformation of ENCLOSURE or exceeding maximum temperature (Subclause 13.1.2) [Significant impact]	18
	5.33	PROGRAMMABLE ELECTRICAL MEDICAL SYSTEMS (PEMS) (Subclause 14.1) [Moderate impact]	18
	5.34	Design and implementation (Subclause 14.9) [Moderate impact]	18
	5.35	PEMS VALIDATION (Subclause 14.11) [Moderate impact]	18
	5.36	Mechanical strength (Subclause 15.3.1) [Moderate impact]	18
	5.37	Actuating parts of controls of ME EQUIPMENT (Subclause 15.4.6.1 b) [Moderate impact]	19
	5.38	Limitation of movement (Subclause 15.4.6.2) [Moderate impact]	19
	5.39	Transformers (Subclause 15.5.1.1) [Moderate impact]	19
	5.40	Overload test (Subclause 15.5.1.3) [Moderate impact]	19
	5.41	Dielectric strength (Subclause 15.5.2) [Moderate impact]	19
	5.42	Construction of transformers used to provide separation as required by 8.5 (Subclause 15.5.3) [Significant impact]	19
	5.43	Resistors bridging a MEANS OF PROTECTION (Rationale for Subclause 4.8) [Moderate impact]	19
6	Chan	ges impacting particular users of the standard	20
	6.1	ME EQUIPMENT intended to receive power from other equipment (Subclause 7.2.5) [Significant impact]	20
	6.2	ME EQUIPMENT or ACCESSORIES supplied sterile (Subclauses 7.2.17 and 7.9.2.18) [Moderate impact]	20
	6.3	ME EQUIPMENT supplied from an external pressure source (Subclause 7.2.18) [Moderate impact]	20
	6.4	Mass of MOBILE ME EQUIPMENT (Subclause 7.2.21) [Significant impact]	20
	6.5	General requirements for the instructions for use when the PATIENT is an OPERATOR (Subclause 7.9.2.1) [Moderate impact]	20
	6.6	ME EQUIPMENT emitting radiation (Subclause 7.9.2.17) [Moderate impact]	20
	6.7	ME EQUIPMENT with DEFIBRILLATION-PROOF APPLIED PARTS (Subclause 8.5.5.1 a)) [Significant impact]	21
	6.8	Energy reduction test for ME EQUIPMENT with DEFIBRILLATION-PROOF APPLIED PARTS (Subclause 8.5.5.2) [Significant impact]	21
	6.9	Measurement of LEAKAGE CURRENT for sterile equipment (Subclause 8.7.1 b)) [Moderate impact]	21
	6.10	Isolation of PERMANENTLY INSTALLED ME EQUIPMENT from the SUPPLY MAINS (Subclause 8.11.1) [Moderate impact]	21
	6.11	Protective measures (Subclause 9.2.2.4.4) [Moderate impact]	21
	6.12	Continuous activation (Subclause 9.2.2.5) [Moderate impact]	22
	6.13	Speed of movement(s) (Subclause 9.2.2.6) [Moderate impact]	22
	6.14	Unintended movement (Subclause 9.2.3.1) [Significant impact]	22
	6.15	Overtravel end stops (subclause 9.2.3.2) [Moderate impact]	22
	6.16	Overbalancing from horizontal and vertical forces (Subclause 9.4.2.3 a)) [Significant impact]	22

6.1	7 Movement over a threshold (Subclause 9.4.2.4.3) [Significant impact]	22
6.1	8 Instability of MOBILE ME EQUIPMENT in transport position (Subclause 9.4.3.1 c)) [Moderate impact]	22
6.1	9 Instability of MOBILE ME EQUIPMENT on an incline surface and in other than transport position (Subclause 9.4.3.2 a)) [Moderate impact]	22
6.2	0 Instability of MOBILE ME EQUIPMENT from lateral forces in other than transport position (Subclause 9.4.3.2.b)) [Significant impact]	22
6.2	1 Acoustic energy and vibration (Subclause 9.6.1) [Moderate impact]	22
6.2	2 Audible acoustic energy measurements (Subclause 9.6.2.1) [Moderate	23
6.2	 3 Static forces due to loading from persons (Subclause 9.8.3.2) [Moderate impact] 	23
6.2	 4 Dynamic forces due to loading from persons (Subclause 9.8.3.3) [Moderate impact] 	23
6.2	5 ME EQUIPMENT not intended to produce diagnostic or therapeutic X-radiation (Subclause 10.1.1) [Moderate impact]	23
6.2	6 ME EQUIPMENT intended to produce diagnostic or therapeutic X-radiation (Subclause 10.1.2) [Moderate impact]	23
6.2	7 Microwave radiation (Subclause 10.3) [Significant impact]	23
6.2	8 Lasers and light-emitting diodes (LEDs) (Subclause 10.4) [Moderate impact]	23
6.2	9 APPLIED PARTS not intended to supply heat to a PATIENT (Subclause 11.1.2.2) [Moderate impact]	23
6.3	0 Overflow in ME EQUIPMENT (Subclause 11.6.2) [Moderate impact]	24
6.3	1 Diagnostic X-ray equipment (Subclause 12.4.5.2) [Moderate impact]	24
6.3	2 PEMS intended to be incorporated into an IT-NETWORK (Subclause 14.13) [Moderate impact]	24
6.3	3 Rough handling test (Subclause 15.3.5) [Moderate impact]	24
6.3	4 Application of temperature and overload control devices (Subclause 15.4.2.1 d)) [Moderate impact]	24
6.3	5 Excessive current and voltage protection (Subclause 15.4.3.5) [Moderate impact]	24
6.3	6 Entry of liquids for foot-operated control devices (Subclause 15.4.7.3) [Moderate impact]	24
6.3	7 ME SYSTEM power supply (Subclause 16.3) [Moderate impact]	24
6.3	8 General measurement conditions for ME SYSTEMS (Subclause 16.6.4.1) [Moderate impact]	25
6.3	9 An MSO combined with a separating transformer (Subclause 16.9.2.1 d)) [Moderate impact]	25
6.4	0 Impedance of protective earth connections in ME SYSTEMS (Subclause 16.9.2.2) [Moderate impact]	25
7 Ma	oping	25
7.1	Mapping to the second edition of IEC 60601-1	25
7.2	Mapping to the second edition of IEC 60601-1-1	59
7.3	Mapping to the first edition of IEC 60601-1-4, as amended	61
7.4	Mapping from IEC 60601-1:2005 + A1:2012	64
Bibliog	aphy	101
Table 1 impact.	 Amendment 1 changes assessed as having the potential for a significant 	O'

Table 2 – Amendment 1 changes assessed as having the potential for a moderate

Table 3 – Mapping between the elements of the second edition of IEC 60601-1 asamended and IEC 60601-1:2005 (1 of 35)	
Table 4 – Mapping between the elements of the second edition of IEC 60601-1-1 andIEC 60601-1:2005 (1 of 2)60	
Table 5 – Mapping between the elements of the first edition of IEC 60601-1-4 asamended and IEC 60601-1:2005 (1 of 3)62	
Table 6 – Mapping between the elements of IEC 60601-1:2005 + A1:2012 and other standards (1 of 36)	
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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ASSESSMENT OF THE IMPACT OF THE MOST SIGNIFICANT CHANGES IN AMENDMENT 1 TO IEC 60601-1:2005 AND MAPPING OF THE CLAUSES OF IEC 60601-1:2005 TO THE PREVIOUS EDITION

FOREWORD

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IEC 62348, which is a technical report, has been prepared by subcommittee 62A; Common aspects of electrical equipment used in medical practice, of IEC technical committee 62: Electrical equipment in medical practice.

This second edition cancels and replaces the first edition published in 2006. The second edition retains the mapping that traces the requirements of IEC 60601-1:2005 and its Amendment A1:2012 (Edition 3.1) from their source in the documents that relate to IEC 60601-1:1998 and its amendments (Edition 2.2). See Clause 7. The second edition adds an assessment of the impact of the most significant changes in Amendment 1:2012 (Clauses 4, 5 and 6).

The text of this technical report is based on the following documents:

Enquiry draft	Report on voting
62A/831/DTR	62A/841/RVC

Full information on the voting for the approval of this technical report can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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INTRODUCTION

The first edition of this technical report was created by the Secretariat of SC 62A to assist users of IEC 60601-1 by providing a tool to trace requirements between IEC 60601-1:2005 and their source in the documents that form the basis of the third edition; principally the second edition as amended.

At the Auckland meeting in 2008, IEC Technical Committee (TC) 62 approved a project to develop the 1st amendment to IEC 60601-1:2005 based on the issues outstanding at the time. The TC approved developing the 1st amendment with a view to addressing outstanding issues, including but not limited to:

- those issues reported to the Secretariat of IEC Subcommittee (SC) 62A since the publication of IEC 60601-1:2005;
- the way in which risk management has been introduced into IEC 60601-1:2005; and
- the way the concept of essential performance is used in IEC 60601-1:2005.

Since the Auckland meeting, the Secretariat of SC 62A has received 73 additional issues from National Committees or other interested parties for a total of 182 identified issues with the 2005 edition. Amendment 1 to IEC 60601-1:2005 is intended to address those issues.

The amendment process has resulted in 496 separate changes. Each change was assessed by the experts developing the amendment for its potential impact on users of the standard. Most of the changes are editorial corrections or clarifications and were assessed as having minimal or no impact on the application of the standard. Others were assessed as having moderate or significant impact because they represent a technical change, or they impact a wide range of users, or both.

The second edition of this technical report was prepared by the Secretariat of IEC/SC 62A to summarize those changes that were assessed during the development process as having a moderate to significant impact on users of IEC 60601-1.

The tables from the first edition of this technical report were retained in the second edition because there are counties that have not fully transitioned to the third edition of IEC 60601-1. Therefore, the original contents of IEC/TR 62348 remain useful in those countries.

Table 6 has been updated to include new subclauses added in Amendment 1:2012 (highlighted in blue).

ASSESSMENT OF THE IMPACT OF THE MOST SIGNIFICANT CHANGES IN AMENDMENT 1 TO IEC 60601-1:2005 AND MAPPING OF THE CLAUSES OF IEC 60601-1:2005 TO THE PREVIOUS EDITION

1 Scope

This technical report provides a tool to assist users of IEC 60601-1:2005 to assess the impact of the most significant changes in Amendment 1:2012.

This technical report also provides a tool to assist users of IEC 60601-1 to trace requirements between the third edition and their source in the documents that form the basis of the third edition; principally the second edition as amended.

This report is intended to be used by:

- those who must align standards based on the second edition of IEC 60601-1 with the third edition as amended;
- manufacturers of medical electrical equipment or medical electrical systems;
- health care regulatory authorities, test houses and other organizations responsible for implementing standards for medical electrical equipment and medical electrical systems.

2 Normative references

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

IEC 60601-1:2005, Medical electrical equipment – Part 1: General requirements for basic safety and essential performance Amendment 1:2012

3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 60601-1:2005 + A1:2012 apply.

4 Assessment of the changes in Amendment 1:2012

Amendment 1 contains 496 separate changes. During the development of the amendment, each change was assessed by the experts involved for its potential impact on users of the standard. Most of the changes are editorial corrections or clarifications and were assessed and having minimal or no impact on the application of the standard.

However, 83 of the changes were assessed as having a moderate to significant impact on the users of the standard. This assessment is based on the likelihood that some alterations to the design documentation, testing, the product itself or its accompanying documents will be required because of the change to a requirement in the amendment.

The changes have been divided into two groups:

- those assessed as having a significant impact (Table 1), and