P987.6™/D3 1

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Draft Standard for Recommended 2

Practice for Preparing an IEEE

Standards Draft

5 6	Developed by the
7	Standards Staff Engineering Committee
8	of the
9	IEEE Template Society
10	
11	
12	Approved
13	
14	IEEE SA Standards Board
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- 1 **Abstract:** Key discussion points covered in the draft are stated here in a few complete sentences,
- 2 using passive rather than active voice. The more specific the better since the abstract often
- 3 populates search engines and catalog databases.
- 4 **Keywords:** designation, document development, draft, equation, figure, guide, IEEE 987.6™,
- 5 introduction, list, purpose, recommended practice, scope, standard
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² Available at: https://standards.ieee.org/content/ieee-standards/en/about/contact/index.html.

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³ Available at https://ieeexplore.ieee.org/browse/standards/collection/ieee.

⁴ Available at: <u>https://standards.ieee.org/standard/index.html</u>.

⁵ Available at: https://standards.ieee.org/about/sasb/patcom/materials.html.

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9 10	•	ual Balloting Group Name Standards A voted for approval, disapproval, or abs	
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Introduction

- This introduction is not part of P987.6/D3, Draft Standard for Recommended Practice for Preparing an IEEE Standards Draft
- 4 The introduction of the frontmatter is informative. It serves to give readers context, including background,
- 5 key themes, history, etc.

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Draft Standard for Recommended 1 **Practice for Preparing an IEEE** 2 **Standards Draft**

4 1. Overview

3

5 1.1. Scope

- 6 The scope shall be within the technical boundaries, as determined by the balloting group, of the scope
- 7 submitted on the PAR. If the standard incorporated Open Source, this should be noted in the Scpe along with
- 8 a link to the Open Source of the URL.

9 1.2. Purpose

- 10 The purpose shall be within the technical boundaries, as determined by the balloting group, of the purpose
- 11 submitted on the PAR.

12 1.3. Word usage

- The word shall indicates mandatory requirements strictly to be followed in order to conform to the standard 13
- and from which no deviation is permitted (shall equals is required to).⁶⁷ 14
- 15 The word *should* indicates that among several possibilities one is recommended as particularly suitable,
- without mentioning or excluding others; or that a certain course of action is preferred but not necessarily 16
- 17 required (should equals is recommended that).
- 18 The word may is used to indicate a course of action permissible within the limits of the standard (may equals
- 19 is permitted to).
- 20 The word can is used for statements of possibility and capability, whether material, physical, or causal (can
- 21 equals is able to).

⁶ The use of the word must is deprecated and cannot be used when stating mandatory requirements; must is used only to describe unavoidable situations.

⁷ The use of will is deprecated and cannot be used when stating mandatory requirements; will is only used in statements of fact.

2. Normative references

- 2 The following referenced documents are indispensable for the application of this document (i.e., they must
- 3 be understood and used, so each referenced document is cited in text and its relationship to this document is
- 4 explained). For dated references, only the edition cited applies. For undated references, the latest edition of
- 5 the referenced document (including any amendments or corrigenda) applies.
- 6 Accredited Standards, Accredited Standards Committee C2-2012, National Electrical Safety Code®
- 7 (NESC®).89

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- 8 IEEE P802.21/D14, IEEE P802.21TM (Draft 14, November 2003), Draft Standard for Local and
- 9 Metropolitan Area Networks—Media Independent Handover Services.⁶
- 10 IEEE/ASTM SI 10.1997 / IEEE/ASTM SI 10.1997TM, IEEE/ASTM Standard for Use of the International
- 11 System of Units (SI): The Modern Metric System. 10
- 12 IEEE 260.1-2004 / IEEE 260.1TM-2004, IEEE Standard Letter Symbols for Units of Measurement (SI
- 13 Customary Inch-Pound Units, and Certain Other Units).
- 14 IEEE 91-1973 / IEEE 91TM-1973, IEEE Graphic Symbols for Logic Diagrams (Two State Devices).
- 15 ISO/IEC 27002:2013, Information technology—Security techniques—Code of practice for information
- 16 security controls.
- NFPA 70, NFPA 70, 2011 Edition, National Electrical Code[®] (NEC[®]). 711

18 3. Definitions, acronyms and abbreviations

19 **3.1. Definitions**

- For the purposes of this document, the following terms and definitions apply. The *IEEE Standards Dictionary*
- 21 Online should be consulted for terms not defined in this clause. 12
- acceleration-insensitive drift rate: The component of... See also: drift rate; systematic drift rate.
- code set: See: coded character set.
- coded character set: A set of characters. Syn: code set.
- drift rate: The slope at a stated time of... (adapted from ISO/IEC 9945-1:2003 [B2], adapted)

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The NESC is available from The Institute of Electrical and Electronics Engineers at http://standards.ieee.org/.

¹⁰ IEEE publications are available from The Institute of Electrical and Electronics Engineers (http://standards.ieee.org/).

¹¹ The NEC is published by the National Fire Protection Association (http://www.nfpa.org/). Copies are also available from The Institute of Electrical and Electronics Engineers at http://shop.ieee.org/.

¹² *IEEE Standards Dictionary Online* is available at: http://dictionary.ieee.org. An IEEE Account is required for access to the dictionary, and one can be created at no charge on the dictionary sign-in page.

- 1 **input reference axis**: The direction of an axis. Syn: **IRA**.
- NOTE—See 6.7.¹³
- 3 IRA: See: input reference axis.
- 4 **output**: (A) Data that ...(B) The process of ...
- 5 **systematic drift rate**: That component of drift rate that... (IEEE 260)

6 3.2. Acronyms and abbreviations

7	DER	distributed emission regeneration
8	DIS	distributed interactive simulation
9	ISDN	integrated services digital network
10	LAN	local area network
11	PDU	protocol data unit

4. Important elements of IEEE standards drafts

13 **4.1. General**

- 14 IEEE drafts should be created using one of the approved IEEE SA templates. The templates have built-in
- macro features that allow for easy tagging of each of the draft elements.¹⁴
- 16 Sources listed in the normative references clause shall also be cited in text. Explain the role and significance of
- 17 each normative reference. Note that IEEE drafts may be included in the normative references clause as long as
- they are properly cited. See reference to IEEE P802.21 (Draft 14, November 2003) in Clause 2 of this sample.
- NOTE 1—A normative reference is a document that users of the standard need to have on hand and understand in order
- 20 to correctly implement the material contained in an IEEE draft. 15
- 21 NOTE 2—Documents that serve as supplemental information that authors of the standard found useful when researching
- the material, but that do not carry the same weight as the normative references, are usually informative and therefore
- would belong in a bibliography (informative annex).
- 24 All IEEE standards shall use metric units as the primary units of measure. Customary equivalents may be
- included in the text after the metric units in parentheses. In the case of tables, separate tables for metric and
- customary units may be included. See National Electrical Safety Code[®] (NESC[®]) (Accredited Standards
- 27 Committee C2-2012) and National Electrical Code[®] (NEC[®]) (NFPA 70, 2011 Edition) for examples. For
- more information on the use of metric in IEEE standards, see IEEE/ANSI SI 10. For guidance on the use of
- letter symbols for units of measurement, refer to IEEE Std 260.1-2004.

¹³ Notes in text, tables, and figures of a standard are given for information only and do not contain requirements needed to implement this standard

¹⁴ IEEE SA approved templates can be found online at https://standards.ieee.org/develop/drafting-standard/resources.html.

¹⁵ Notes to text, tables, and figures are for information only and do not contain requirements needed to implement the standard.

4.2. Lists

1

- 2 Lists in a clause or subclause may be ordered or unordered.
- The following is an example of a properly formatted ordered list:
- 4 a) Name of the manufacturer
- 5 b) Connection chart showing
- 6 1) Full winding development
- 7 2) Taps
- 8 c) Self-impedance (for linear coupler transformers)
- 9 i) Reactance
- 10 ii) Impedance
- 11 1) For volts
- 12 2) For amperes
- 13 The following is an example of a properly formatted unordered list:
- 14 Begin with a capital letter.
- 15 Include final punctuation for all items in the list if one item in the list is a complete sentence.

16 **4.3. Tables**

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Tables should be cited in text and the significance of the tables explained. Table titles are positioned above the tables. <u>Table 1</u> shows the nomenclature of a properly formatted table.

Table 1—Table formatting

Column heading	Colomor booding	Column headinga	
	Column heading	Column heading Column heading	Column heading
Line heading	Tabulated data (individual		
Subheading	positions within the body of the table are called <i>cells</i>)		
Subheading	,		
Line heading			

- NOTE 1— This table is provided as an example. The structure of actual tables may vary depending on the data being displayed.
- NOTE 2— Use 0.75 Xd for hydrogenerators without amortisseur windings.
- Table footnotes are considered to be a normative part of the document.
- 32 Column headings are in bold and centered. If a table extends beyond one page, carry the title of the table
- over to each subsequent page with "(continued)" after the title. Table notes are informative; table footnotes
- 34 are normative.
- 35 The following is an example of an informal table. Note that there is no title or table number. Use these
- sparingly. It is preferred that all tables are numbered and titled.

1	
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Cable type	Rated voltage (kV)	
High pressure	69–161	
Low pressure	10–29	
Gas-filled	30–46	
Low and medium pressure	15–161	
Liquid-filled	230	

4.4. Figures

Figures should be cited in text and the significance of the figures explained. Figure titles are positioned below the figures themselves. Figures can be created using text or graphics software. Figure 1 and Figure 2 show

11 properly formatted figures.

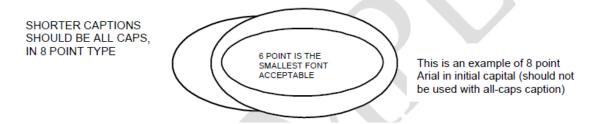


Figure 1—Typographical specifications for figure title

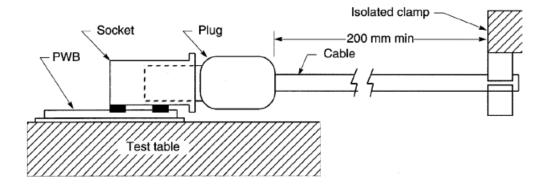
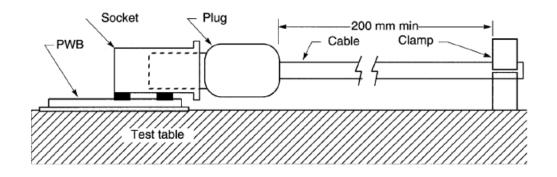


Figure 2-1—vibration test



- Figure 2-2—shock test
- NOTE—Notes to figures are formatted between the graphic and the figure caption.
 - Figure 2—A sample of figure presentation

4.5. Equations

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- 5 Equations should be cited in text and the significance of each equation explained. The equation number should
- 6 be right-aligned. See <u>Equation (1)</u>.

$$Y(x) = Y_0 \exp\left[-(x - x_0)^2 / (2f^2)\right]$$
 (1)

9 10	Y(x)	is the amplitude of the Gaussian function at channel x
11	Y_0	is the height of the Gaussian at the centroid channel
12	X	is the channel number
13	<i>x</i> ₀	is the centroid of the Gaussian
14	f	is the width of the Gaussian

1 Annex A

2 (informative)

3 Sample bibliography

- 4 Bibliographical references are resources that provide additional or helpful material but do not need to be
- 5 understood or used to implement this standard. Reference to these resources is made for informational use
- 6 only.
- 7 [B1] IEEE Std XXXTM-YEAR, IEEE Standard for Something Industry Needs.
- 8 [B2] ISO/IEC 9945-1:2003, Information technology—Portable Operating System Interface (POSIX)— 9 Part 1: Base Definitions. ¹⁶
- 10 [B3] *Name of Book Title in Italics*. City of Publication, State: Name of Publisher, Year of Publication. First and Last Page of Reference.

¹⁶ ISO/IEC documents are available from the International Organization for Standardization (https://www.iso.org/). ISO/IEC publications are also available in the United States from Global Engineering Documents (https://global.ihs.com/). Electronic copies are available in the United States from the American National Standards Institute (https://www.ansi.org/)

- 1 Annex B
- 2 (normative)
- 3 Structure of a sample annex

4 B.1. Overview

- 5 **B.1.1. Title**
- Every annex shall be given a title and shall be designated either a normative or an informative annex. Notice
- 7 that the numbering now contains the annex letter. See <u>Equation (B.1)</u>:

$$Y(x) = Y_0 \exp\left[-(x - x_0)^2 / (2f^2)\right]$$
(B.1)

10 11	Y(x)	is the amplitude of the Gaussian function at channel x
12	Y_0	is the height of the Gaussian at the centroid channel
13	X	is the channel number
14	x_0	is the centroid of the Gaussian
15	f	is the width of the Gaussian

16 B.1.2. Clause and subclause organization

- 17 The material in an annex should be organized into clauses and subclauses just like the body text. There should
- 18 be at least two subclauses in any subdivision so that if there is one second-level header, there should be at
- a minimum one other one.

20 B.2. Material in annexes

- Tables, figures, equations, lists, etc., in an annex are formatted like they would be in the body of the text
- 22 except that

- 23 Tables are numbered according to the annex letter (see Table B.1).
- 24 Figures are labeled according to the annex letter (see Figure B.1).

25 Table B.1—Sample table in an annex

Column heading	Column heading	Column heading	
		Column heading	Column heading
Line heading	Tabulated data (individual		
Subheading	positions within the body of the table are called <i>cells</i>)		
Subheading			

Table B.1—Sample table in an annex (continued)

Line heading

SHORTER CAPTIONS
SHOULD BE ALL CAPS,
IN 8 POINT TYPE

SMALLEST FONT
ACCEPTABLE

This is an example of 8 point
Arial in initial capital (should not be used with all-caps caption)

Figure B.1—Sample figure in an annex