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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 9414.1-2012

Replacing GB/T 9414.1-1988; GB/T 9414.3-1988

Maintainability -- Part 1: Application guide

维修性 第1部分：应用指南

(English Translation)

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Foreword

GB/T 9414 "maintainability" is divided into the following five sections.

- Part 1. Application guide;
- Part 2. Maintainability studies during the design phase;
- Part 3. Repair verification and data collection, analysis and representation;

--- Part 4. repair and maintenance of security;

--- Part 5. diagnostic tests.

This section GB/T 19414 Part of.

This section drafted in accordance with the rules of GB/T 1.1-2009 and GB/T 20000.2-2009 given.

This Part replaces GB/T 9414.1-1988 "Guide on maintainability of equipment - Part 1. Introduction to maintainability" and GB/T 9414.3-1988 "Guide on maintainability of equipment - Part 3. maintainability program." And GB/T 9414.1-1988 and GB/T 9414.3-1988 phase Ratio, the main technical changes are as follows.

--- Standard title "Guide on maintainability of equipment" to "maintainability";

--- Standard IEC 60300-3-10 structure using the structure of GB/T 9414.1-1988 and GB/T 9414.3-1988 in Content integration;

--- Added "Preface" and "Introduction" part, explain the adjustments to standard content and structure;

--- Throughout the "equipment" to "products";

Related Content --- This section needs to be consistent with the technical content of IEC standards, the country is currently no corresponding standard and IEC standard Registration in the "Normative references" and direct reference to the body of IEC standards;

--- Added "Normative references" and "terms, definitions and abbreviations" part;

--- For each part of the maintenance of the outline of a larger modifications, according to the maintainability of the elements and tasks carried out structural adjustment and Perfect, and the content was revised and supplemented;

--- According to GB/T 6992.2-1997 defined life cycle stages, given the overall product life cycle of each stage Repair work points;

--- Increased maintenance plans and restricted content (see 6.1);

--- Increase in the content of the maintenance project management (see 6.3);

--- Increased maintenance due to the content of human engineering design (see 6.4.5);

--- Increasing the content maintenance support program (see 6.9).

This section uses the translation method identical with IEC 60300-3-10:2001 "Dependability management - Part 3. Section 10 Application Guide.

Maintainability. "

Consistency correspondence with international standards in this section of our references as follows.

- GB/T 5081 trusted data collection site (IEC 60300-3-2, IDT)
- GB/T 9414.3 Maintainability Part 3. Inspection and maintenance of data collection, analysis and presentation (IEC 60706-3, IDT)
- GB/T 9414.4 Maintainability Part 4. repair and maintenance of security (IEC 60300-3-14, IDT)
- GB/T 9414.5 Maintainability Part 5. Diagnostic tests (IEC 60706-5, IDT) Above the national standard is being revised.

This part of IEC 60300-3-10. compared to 2001, made the following editorial changes.

- Standard name change;
- "This International Standard" be replaced by "this section" or "GB/T XXXX";
- Remove the IEC 60300-3-10:2001 Foreword, Introduction and references;
- Increase the national standard foreword;
- Instead of national standards of the "Normative references" cited documents listed in the chapter with the corresponding identical with the document, this Part in or planned revision of national standards is still in its original quoted IEC standard;

Increase --- 6.3.2 subordinate title "6.3.2.1 maintenance tasks" and "6.3.2.2 Cross Reference" in order to use standard persons Distinguish two parts.

This part is proposed by the Ministry of Industry and Information Technology of the People's Republic of China.

This part of the National Electrical Electronic Product Reliability and Maintainability Standardization Technical Committee (SAC/TC24) centralized.

This section drafted by. Ministry of Industry and Information Technology Institute of Electronics V.

Introduction

National Standard GB 9414.1-1988 and GB 9414.3-1988 IEC 60706-1-1982 is equivalent to the first and third Partially braided. IEC 60300-3-10Ed.1.0-2001 "Dependability management - Part 3-10. Application Guidelines maintainability" Publish After, IEC 60706-1 standards are completely replaced. Therefore, this part of the amendment is in accordance with IEC 60300-3-10Ed.1-2001, in accordance with the use of equivalent the revision of the Principles.

GB/T 9414-1988 is identical with equipment maintenance of IEC 60706 series of standards

formation, GB/T 9414-1988 standard knot Structure as follows.

No. Standard No. Standard name the first part of the GB/T 9414.1-1988 Guide on maintainability of equipment Part I. Introduction to maintainability the second part of the GB/T 9414.2-1988 Guide on maintainability of equipment Part II. specification and contract maintenance requirements the third part of the GB/T 9414.3-1988 Guide on maintainability of equipment - Part 3. maintainability program the fourth part of the GB/T 9414.4-1988 Guide on maintainability of equipment Part V. Maintainability studies the design phase the fifth part of the GB/T 9414.5-1988 Guide on maintainability of equipment Part VI. Maintenance test Part VI GB/T 9414.6-1988 Guide on maintainability of equipment Part VII. maintenance of data collection, analysis and presentation of Part VII of the GB/T 9414.7-2000 Guide on maintainability of equipment Part 4. Diagnostic tests Part VIII GB/T 9414.8-2001 Guide on maintainability of equipment Part 9. Statistical Methods for Evaluating Maintainability According to the principle requirements of the National Standards Board in national standards revamp concerning the revised standard, this revision will respectively GB/T 9414-1988 series of standards in section 1,3, 2,4 and 5,6 part of a total of six sub-part standard, adopted in accordance with the equivalent IEC 60706 version of the changes were merged to form three criteria, namely. the new GB/T 9414.1, the new GB/T 9414.2 and the new GB/T 9414.3, therefore, adjusted the maintenance of the standard configuration consists of the following five components.

No. Standard No. Standard name use cases the first part of the new GB/T 9414.1 Application Guidelines maintainability identical with IEC 60300-3-10Ed.1-2001 the second part of the new GB/T 9414.2 repair research design and development phase identical with IEC 60706-2Ed.2-2006 the third part of the new GB/T 9414.3 maintenance inspection and data collection, analysis and presentation identical with IEC 60706-3Ed.2-2006 the fourth new GB/T 9414.4 repair and maintenance of security equivalent to using IEC 60300-3-14Ed.1-2004 the fifth new GB/T 9414.5 diagnostic tests identical with IEC 60706-5Ed.2-2007 Some of them are identical with IEC 60300-3-14Ed.1-2004 fourth will be the formation of new GB/T 9414.4; and Part V Will at a later GB/T 9414.7-2000 amendment identical with IEC 60706-5Ed.2-2007 form new GB/T 9414.5.

In addition, identical with the original IEC 60706-6Ed.1-1994 of GB/T 9414.8-2001 technical content by IEC 60706-3 Ed.2-2006 contains the IEC standard has been abolished, so that the new GB/T 9414 is also no need to maintain this section.

Maintenance - Part 1. Application guide

1 Scope

This section GB/T 9414 is the maintenance of the application guidelines for product design from the start, using various stages of development to maintenance of Outline of implementation. GB/T 6992.2-1997 describes the tasks of the product life cycle stages.