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

GB/T 17215.921-2012

**Electricity metering equipment -- Dependability -- Part 21:
Collection of meter dependability data from the field**

电测量设备 可信性 第21部分：现场仪表可信性数据收集
(English Translation)

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Foreword

GB/T 17215 series of standards is made up of several-part, GB/T 17215 in the "credibility of the electrical measuring equipment" to be covered by the following Components.

--- Part 11. General concepts (IEC/T R62059-11);

--- Part 21. Field data collection instruments credibility (IEC/T R62059-21);

The first part --- 31-1. temperature and humidity accelerated reliability test (IEC 62059-31-1);

--- Part 32-1. accelerated endurance test (IEC 62059-32-1);

--- Part 41. Reliability prediction (IEC 62059-41);

--- Part 51. Software dependability (IEC 62059-51).

This section GB/T 17215 part of 21.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This section uses the translation method is equivalent to using IEC/T R62059-21. section

2002 "credibility electrical measuring equipment 21. field instrumentation Trusted data collection "(in English).

For ease of use, this section made the following editorial changes.

- a) instead of as a decimal by decimal comma " , " . " , " ;
- b) "IEC 62059 this part of" the word changed to "GB/T 17215 in this section";
- c) Remove the IEC/T R62059-21.2002 Foreword.

Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of these patents.

This part is proposed by China Machinery Industry Federation.

This part of the National Electrical Instrument Standardization Technical Committee (SAC/TC104) centralized.

This section is drafted. Harbin Electrical Instrument Research Institute, Chongqing Electric Power Test & Research Institute, North China Electric Power Research Institute, Jiangsu Province Institute of Metrology, Shanghai EF Electronics Technology Co., Ltd., Shenzhen Clou Electronics Technology Co., Ltd. Holley Metering Unit Parts Limited, Hangzhou PAX Electronic Technology Co., Ltd., Xi'an flags Electronics Co., Ltd. Wei Sheng Group Co., Ltd., Chint Instrument has Limited liability company, Ningbo Sanxing Electric Co., Ltd., Jiangsu Caio million Hong Electronics Co., Ltd., Shenzhen Aerospace Electronics Co., Terry, Czech Republic.

Introduction

The report is based on GB/T 17215.911 "credibility electrical measuring equipment - Part 11. General concepts." this report focuses on the following questions.

- Definition of complexity equipment;
- Failure classification;
- Through the field to return the faulty equipment for data collection;
- By the method of sampling for data collection.

Or more sections for the collection and classification of failure data, and these data can be reliably used to assess static electricity measuring device Sex. Such as IEC 60812. 1985 as described in the failure can be classified in different ways.

For on-site static electrical measurement equipment reliability assessment, we selected a number of special classification from the current standard.

Electrical measuring equipment credibility Part 21. Field data collection instruments

credibility

1 Scope

This section GB/T 17215 specifies the use field failure reports and sampling of static electrical measurement devices field failure data Collection and analysis methods. For categorical definition of complexity and equipment failure.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 2900.13-2008 Electrotechnical terminology credibility and quality of service (IEC 60050 (191).1990, Amend.1.1999 AndAmend.2.2002, IDT) GB/T 17215.911-2011 credibility electrical measuring equipment - Part 11. General concepts (IEC/T R62059-11.2002, IDT) IEC 60300-3-2:1993 Dependability management - Part 3. Application guide - Section 2. Trusted data collection site (Depend-abilitymanagement-Part 3-2. Applicationguide-Collectionofdependabilitydatafromthefield) IEC 60410. 1973 inspection and sampling programs and features of the step (Samplingplansandproceduresforinspectionby attributes) IEC 60605-1. 1978 Equipment reliability testing - Part 1. General requirements modification 1 (1982) (Equipmentreliability testing-Part 1. Generalrequirements) IEC 60812. 1985 system reliability analysis Failure Mode and Effects Analysis (FMEA) step [Analysistech-niquesforsystemreliability-Procedureforfailuremodeandeffectsanalysis (FMEA)] IEC 61358:1996 directly connected to AC static meters for active energy (level 1 and level 2) Acceptance testing [Acceptance inspectionfordirectconnectedalternatingcurrentstaticwatt-hourmetersforactiveenergy (Classes1 and2)] IEC 62051:1999 energy measurement glossary (Electricitymetering-Glossaryofterms)

3 Terms and Definitions

GB/T 2900.13-2008 and IEC 62051:1999 as defined in the following terms and definitions apply GB/T 17215 of the present section. For ease of use, repeat the following list of GB/T 2900.13-2008 and IEC 62051:1999 and some of the terminology definition.

Category

Objects with the same quality of a species or a group.

Category classification Planned arrangements category; or according to one or more elements of classification, the sample or product into different categories.