

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

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DC Current Transformers (English Translation)

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Table of Contents

Introduction	
1 Scope	
2 References	
3 Term	
3.1 DC current transformer	
3.2 Primary current sensor	
3.3 Primary converter	
3.4 Transmission System	
3.5 Secondary converter	
4 Overview	
5 Metrology performance requirements	
5.1 Basic Error and Accuracy Level	
5.2 Cycle Stability	
6 General technical requirements	
6.1 Appearance	
6.2 Insulation	
6.3 Polarity	
7 Measuring instrument control	
7.1 Verification conditions	
7.2 Verification items and verification methods	
7.3 Processing of verification results	
7.4 Verification cycle	
Appendix A Basic Principles of DC Current Transformers	
Appendix B Additional error control for on-site verification of DC current transformers	
Appendix C Verification of the original record format	
Appendix D Verification Certificate/Verification Result Notice Page Format	
Appendix E Verification certificate/verification result notification result page (page 3) style	

1 Scope 1

2 References 1

3 term 1

3.1 DC current transformer	1
3.2 Primary current sensor	1
3.3 primary converter	1
3.4 Transmission System	1
3.5 secondary converter	1
4 Overview	2
5 Metrology performance requirements	2
5.1 Basic Error and Accuracy Level	2
5.2 Cycle Stability	3
6 General technical requirements	3
6.1 Appearance	3
6.2 Insulation	3
6.3 Polarity	3
7 measuring instrument control	3
7.1 Verification conditions	3
7.2 Verification items and verification methods	4
7.3 Processing of verification results	6
7.4 Verification cycle	6
Appendix A Basic Principles of DC Current Transformers	7
Appendix B Additional error control for on-site verification of DC current transformers	10
Appendix C Verification of the original record format	11
Appendix D Verification Certificate/Verification Result Notice Page Format	14
Appendix E Verification certificate/verification result notification result page (page 3) style	15

Introduction

This procedure is based on JJF1002-2010 "Rules for the Preparation of National Metrology Verification Procedures".

This procedure is the first release.

DC current transformer verification procedure

1 Scope

This procedure is applicable to the first verification, subsequent verification and use of DC current transformers for HVDC transmission systems.

an examination.

2 reference files

This procedure refers to the following documents.

GB/T 16927.1-2011 High voltage test techniques - Part 1. General definitions and test requirements
GB/T 20840.8-2007 Transformers - Part 8. Electronic current transformers
GB/T 26216.1-2010 High-voltage direct current transmission system DC current measuring device - Part 1. Electronic DC current measuring device
GB/T 26216.2-2010 High-voltage direct current transmission system DC current measuring device - Part 2. Electromagnetic DC current measuring device
for dated references, only the dated version applies to this Code; any undated quotation the latest version (including all amendments) applies to this procedure.

3 terms

GB/T 20840.8-2007, GB/T 26216.1-2010 and GB/T 26216.2-2010 define and the following terms and definitions apply to this procedure.

3.1 DC current transformer DCcurrenttransformer Also known as DC current measuring device. Providing a signal corresponding to a primary circuit direct current, supplying the measuring instrument Instruments, meters and protection or control equipment.

[Refer to GB/T 26216.1-2010, 3.1] 3.2 primary current sensor primary currentsensor an electrical, electronic, optical or other device that produces a signal corresponding to a current flowing through a primary terminal, the generated signal is transmitted to the secondary device either directly or via a converter.

[Refer to GB/T 20840.8-2007, 3.1.4] 3.3 primary converter A device that converts signals from one or more primary current sensors into signals suitable for the transmission system.

[Refer to GB/T 20840.8-2007, 3.1.5]

3.4 Transmission system A short or long range coupling device that transmits signals between primary and secondary components. According to the technology used, the transmission system can also be used to transmit power.

[GB/T 20840.8-2007, 3.1.7]