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Australian Standard 1931, Part 1—1976

HIGH VOLTAGE TESTING TECHNIQUES

Part 1—GENERAL DEFINITIONS,
TEST REQUIREMENTS,
TEST PROCEDURES
AND MEASURING DEVICES



STANDARDS ASSOCIATION OF AUSTRALIA

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THE FOLLOWING SCIENTIFIC, INDUSTRIAL AND GOVERNMENTAL ORGANIZATIONS were officially represented on the committee entrusted with the preparation of this standard:

Associated Chambers of Manufactures of Australia

Australian British Trade Association

Australian Electrical Manufacturers Association

Electricity Supply Association of Australia

Electricity Supply Engineers Association of N.S.W.

Railways of Australia Committee

Testing Authorities

The Institution of Engineers, Australia

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HIGH VOLTAGE TESTING TECHNIQUES

Part 1

GENERAL DEFINITIONS, TEST REQUIREMENTS, TEST PROCEDURES AND MEASURING DEVICES

AS 1931, Part 1—1976

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PREFACE

This standard was prepared by a subcommittee of the Association's Committee on Power Switchgear as a revision of AS C328—1965, which it accordingly supersedes.

It deals with general definitions, test requirements, test procedures and measuring devices for dielectric tests with direct, alternating, lightning impulse and switching impulse voltages, and tests with impulse currents. It describes testing procedures for dry tests, wet tests and artificial pollution tests, and introduces statistical evaluation of test results.

This part is based on IEC Publication 60, High Voltage Testing Techniques, Part 1 — General Definitions and Test Requirements; Part 2 — Test Procedures; and IEC document 42 (Central Office) 24, draft of Part 3 — Measuring Devices. Acknowledgement is made of the assistance received from these sources.

The second part of this standard, i.e. Part 2 — Application Guide for Approval Measuring Devices, based generally on international recommendations, is in the course of preparation.

This standard requires reference to the following Australian standards:

- AS 1018** Recommendation for Partial Discharge Measurements
- AS 1042** Direct-acting Indicating Electrical Measuring Instruments and Their Accessories
- AS 1243** Voltage Transformers for Measurement and Protection
- AS C329** Method for the Measurement of Voltage with Sphere-gaps (One Sphere Earthed).

CONTENTS

	<i>Page</i>
SECTION 1. SCOPE AND PURPOSE	
1.1 Scope	5
1.2 Purpose	5
SECTION 2. DEFINITIONS	
2.1 Application .. .	6
2.2 Impulses .. .	6
2.3 Disruptive Discharges and Test Voltages .. .	6
2.4 Classification of Insulation .. .	8
SECTION 3. GENERAL REQUIREMENTS RELATING TO TEST PROCEDURES AND TEST OBJECTS	
3.1 General Arrangement of the Test Object .. .	9
3.2 Dry Tests .. .	9
3.3 Wet Tests .. .	9
3.4 Artificial Pollution Tests With Alternating and Direct Voltages .. .	12
3.5 Atmospheric Conditions .. .	14
SECTION 4. TESTS WITH DIRECT VOLTAGE	
4.1 Definitions for Direct Voltage Tests .. .	20
4.2 Test Voltage .. .	20
4.3 Measurement .. .	21
4.4 Test Procedures .. .	21
SECTION 5. TESTS WITH ALTERNATING VOLTAGE	
5.1 Definitions for Alternating Voltage Tests .. .	23
5.2 Test Voltage .. .	23
5.3 Test Procedures .. .	25
SECTION 6. TESTS WITH LIGHTNING IMPULSE VOLTAGES	
6.1 Definitions for Lightning Impulse Tests .. .	27
6.2 Test Voltage .. .	32
6.3 Test Procedures .. .	34

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