

CERTIFICATE OF ACCREDITATION

This is to attest that

GCC ELECTRICAL POWER LAB CO.

3RD INDUSTRIAL CITY, MODON 3 DAMMAM, 39558 SAUDI ARABIA

Testing Laboratory TL-1165

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date February 7, 2025



International Accreditation Service Issued under the authority of IAS management

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Accredited to ISO/IEC 17025:2017

Effective Date February 7, 2025

	bles and Accessories
ICEA S-108-720	Extruded Insulation Power Cables Rated Above 46 Through 500 KV AC
	(only clauses 9.8 and 10.1)
IEC 60227-3	Polyvinyl chloride insulated cables of rated voltages up to and including
	450/750 V – Part 3: Non-sheathed cables for fixed wiring. (for reference of
	IEC 60227-1, IEC 60227-2 and IEC 63294 standard)
IEC 60227-4	Polyvinyl chloride insulated cables of rated voltages up to and including
	450/750 V - Part 4: Sheathed cables for fixed wiring. (for reference of IEC
	60227-1, IEC 60227-2 and IEC 63294 standard)
IEC 60227-5	Polyvinyl Chloride Insulated Cables of Rated Voltages Up to And Including
	450/750 V – Part 5: Flexible cables (cords) (for reference of IEC 60227-1,
	IEC 60227-2 and IEC 63294 standard)
IEC 60502-1	Power cables with extruded insulation and their accessories for rated voltages
	from 1 kV (Um = 1,2 kV) up to 30 kV (Um = 36 kV) – Part 1: Cables for rated
	voltages of 1 kV (Um = 1,2 kV) and 3 kV (Um = 3,6 kV)
	Clause 16 Sample tests
	Clause 17 Type tests, electrical
	Clause 18 Type tests, non-electrical (except clauses 18.15, 18.22, in clause 18.9
	exclude IEC 60811-504, IEC 60811-506 test methods)
IEC 60502-2	Power cables with extruded insulation and their accessories for rated voltages
	from 1 kV (Um = 1,2 kV) up to 30 kV (Um = 36 kV) – Part 2: Cables for rated
	voltages from 6 kV (Um = 7.2 kV) up to 30 kV (Um = 36 kV)
	Clause 17 Sample tests
	Clause 18 Type tests, electrical
	Clause 19 Type tests, non-electrical (except clauses 19.16, 19.19, 19.20)
IEC 60502-4	Power cables with extruded insulation and their accessories for rated volt-
	ages from 1 kV (Um = 1,2 kV) up to 30 kV (Um = 36 kV) – Part 4: Test re-
	quirements on accessories for cables with rated voltages from 6 kV (Um =
	7,2 kV) up to 30 kV (Um = 36 kV) (only for reference for IEC 61442 stand-
	ard)
IEC 60840	Power cables with extruded insulation and their accessories for rated voltages
	above 30 kV (Um = 36 kV) up to 150 kV (Um = 170 kV) – Test methods and
	requirements
	Clause 12 Type tests on cable systems (exclude clause 12.5.8 to exclude only
	IEC 60811-504, IEC 60811-506 test methods, 12.5.14, 12.5.19)
	Clause 13 Prequalification test of the cable system.
	Clause 14 Type tests on cables
	Clause 15 Type tests on accessories
	Annex H Additional tests for accessories (exclude clause H.6)
IEC 61442	Test methods for accessories for power cables with rated voltages from 6





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	kV (Um = 7,2 kV) up to 30 kV (Um = 36 kV) (only clauses 4, 5, 6, 7, 9, 15,17, 19 and 20)
IEC 62067	Power cables with extruded insulation and their accessories for rated voltages above 150 kV (Um = 170 kV) up to 500 kV (Um = 550 kV) – Test methods and
	requirements Clause 12 Type tests on cable systems (except clause 12.5.8 to exclude only IEC 60811-504, IEC 60811-506 test methods, 12.5.14)
	Clause 13 Prequalification test of the cable system
	Clause 14 - Type test on cables.
	Clause 15 - Type test on accessories.
	Annex H Additional tests for accessories (exclude clauses H.5, H.6)
Overhead Conduct	
ASTM B230	Standard Specification for Aluminum 1350–H19 Wire for Electrical Purposes
ASTM B231	Standard Specification for Concentric-Lay-Stranded Aluminum 1350 Conductors
ASTM B232	Standard Specification for Concentric-Lay-Stranded Aluminum Conductors, Coated- Steel Reinforced (ACSR)
ASTM B399	Standard Specification for Concentric-Lay-Stranded Aluminum-Alloy 6201- T81 and 6201-T83 Conductors
ASTM B502	Standard Specification for Aluminum-Clad Steel Core Wire for Use in Over-
7.0 TW BOOZ	head
	Electrical Aluminum Conductors
	Except clause 13. Torsion Test
ASTM B549	Standard Specification for Concentric-Lay-Stranded Aluminum Conductors, Alu-
	minum- Clad Steel Reinforced for Use in Overhead Electrical Conductors
EN 50189	Conductors for overhead lines - Zinc coated steel wires. Except 11.5.2 Torsion test
IEC 61089	Round wire concentric lay overhead electrical stranded conductors
	All clauses except:
	Annex B Stress-Strain test
IEC 62641	Conductors for overhead lines – Aluminium and aluminium alloy wires for concentric lay stranded conductors
IEC 63248	Conductors for overhead lines – Coated or cladded metallic wire for concen-
	tric lay stranded conductors.
	Except subclauses:
 	7.4.4.1 torsion, 7.4.4.3 Reverse bend, 7.4.6 Linear Expansion
Switch Gears and	
IEC 60947-1	Low-voltage switchgear and controlgear – Part 1: General rules
	(only clauses 8.1.2, 9.2.2.1 Glow wire testing, 9.3.3.4.1 Dielectric properties-
	Type tests No.3,4, Annex M Hot wire, Arc ignition and Annex Q - Tests for
	environmental categories A, B, C) Subclauses:
	6.2 Marking,
	8.1.4, 8.2.3.4 and 8.2.3.5 Verification of clearance and creepage distances
	8.1.12 Degrees of protection of enclosed equipment (IP coding)-Annex C
	8.2.2, 9.3.3.3 Temperature rise test.
	8.2.3.2 Impulse withstand voltage.
	8.2.3.3 Power frequency test
	annex Q Resistance to corrosion- damp heat cycling test (Db
IEC 60947-2	Low-voltage switchgear and controlgear – Part 2: Circuit-breakers
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	5.2 Marking
	Refer to IEC 60947-1 for below subclauses:
	8.1.4, 8.2.3.4 and 8.2.3.5 Verification of Clearances and Creepage distances
	8.1.12 Verification of the IP coding
	8.2.2 Temperature-rise tests
	8.2.3.2 Impulse withstand voltage.
	8.2.3.3 Power-frequency withstand voltage.
IEC 60947-3	Low-voltage switchgear and controlgear – Part 3: Switches, disconnectors,
.20 000 0	switch-disconnectors and fuse-combination units
	6.2 Marking
	Refer to IEC 60947-1 for below subclauses:
	8.1.2.2 Resistance to abnormal heat and fire due to internal electric effects
	(glow-wire test)
	8.1.4 Verification of Clearances and Creepage distances
	8.1.12 Verification of the IP coding
	8.2.3.3 Power-frequency withstand voltage.
	8.2.3.2 Impulse withstand voltage.
	8.2.2 Temperature-rise tests
IEC 61439-1	Low-voltage switchgear and controlgear assemblies - Part 1: General rules
	Subclauses:
	10.2.3.2 resistance to abnormal heat and fire glow wire
	10.2.4 Resistance to ultra-violet (UV) radiation
	10.2.5 Lifting
	10.2.7 Marking
	10.2.8 mechanical Operation
	8.3,10.4, Annex F Verification of Clearances and Creepage distances
	8.2.1, 10.2.6 Verification of the IK coding
	8.2.2, 10.3 Verification of the IP coding
	10.9.2 power frequency withstand voltage
	10.9.3, Annex G Impulse withstand voltage
	10.10, Annex L Temperature-rise tests
	10.2.2 Resistance to corrosion- damp heat cycling test (Db)
	10.2.2 Resistance to corrosion- salt mist test (Ka)
	10.2.3.1 Thermal stability (dry heat test)
IEC 61439-2	Low-voltage switchgear and controlgear assemblies – Part 2: Power switchgear
	and controlgear assemblies
	Refer to IEC 61439-1 for below clauses subclauses:
	10.2.3.2 Resistance to abnormal heat and fire glow wire
	10.2.4 Resistance to ultra-violet (UV) radiation
	10.2.5 Lifting
	10.2.7 Marking
	10.2.8 mechanical Operation
	10.4 Verification of Clearances and Creepage distances
	10.2.6 Verification of the IK coding
	10.3 Verification of the IP coding
	10.9.2 power frequency withstand voltage
	10.9.3, Annex G Impulse withstand voltage.
	10.10 Temperature-rise tests
	10.2.2 Resistance to corrosion- damp heat cycling test (Db)
	10.2.2 Resistance to corrosion- salt mist test (Ka)
	10.2.3.1 Thermal stability (dry heat test)



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IEC 61439-3	Low-voltage switchgear and controlgear assemblies - Part 3: Distribution boards
	intended to be operated by ordinary persons (DBO)
	Refer to IEC 61439-1 for below clauses subclauses:
	10.2.3.2 resistance to abnormal heat and fire glow wire
	10.2.4 Resistance to ultra-violet (UV) radiation
	10.2.5 Lifting
	10.2.7 Marking
	10.13 Mechanical Operation refer to IEC 61439-1 clause 10.2.8.
	Verification of Clearances and Creepage distances refer to IEC 61439-1 sub-
	clause 8.3,10.4, Annex F
	10.2.6 Verification of the IK coding
	10.3 Verification of the IP coding
	10.9.2 power frequency withstand voltage
	10.9.3, Annex G Impulse withstand voltage.
	10.10 Temperature-rise tests
	10.2.2 Resistance to corrosion- damp heat cycling test (Db)
	10.2.2 Resistance to corrosion- salt mist test (Ka)
	10.2.3.1 Thermal stability (dry heat test)
IEC 61439-4	
IEC 01439-4	Low-voltage switchgear and controlgear assemblies – Part 4: Particular requirements for assemblies for construction sites (ACS)
	Refer to IEC 61439-1 for below clauses subclauses:
	10.2.3.2 Resistance to abnormal heat and fire due to internal electric effects
	(glow-wire test)
	10.2.4 Resistance to ultra-violet (UV) radiation
	10.2.5 Lifting
	10.2.7 Marking
	10.2.8 Mechanical operation tests
	10.4 Verification of Clearances and Creepage distances
	10.2.6 Verification of the IK coding
	10.3 Verification of the IP coding
	10.9.2 Power-frequency withstand voltage
	10.9.3 Impulse withstand voltage
	10.10 Temperature-rise tests
	10.2.2 Resistance to corrosion- damp heat cycling test (Db)
	10.2.2 Resistance to corrosion- salt mist test (Ka)
	10.2.3.1 Thermal stability (dry heat test)
IEC 61439-5	Low-voltage switchgear and controlgear assemblies –
	Part 5: Assemblies for power distribution in public networks
	Refer to IEC 61439-1 for below clauses subclauses:
	10.2.3.2 Resistance to abnormal heat and fire due to internal electric effects
	(glow-wire test)
	10.2.4 Resistance to ultra-violet (UV) radiation
	10.2.5 Lifting
	10.2.7 Marking
	10.2.8 Mechanical operation tests
	10.4 Verification of Clearances and Creepage distances
	10.2.6 Verification of the IK coding
	10.3 Verification of the IP coding
	10.9.2 Power-frequency withstand voltage
	10.9.3 Impulse withstand voltage
	10.10 Temperature-rise tests
	10.10 Tomporatare not tests



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	10.2.2 Resistance to corrosion- damp heat cycling test (Db)
	10.2.2 Resistance to corrosion- salt mist test (Ka)
	10.2.3.1 Thermal stability (dry heat test)
IEC 61439-6	Low-voltage switchgear and controlgear assemblies –
	Part 6: Busbar trunking systems (busways)
	Refer to IEC 61439-1 for below clauses subclauses:
	10.2.3.2 Resistance to abnormal heat and fire due to internal electric effects
	(glow-wire test)
	10.2.4 Resistance to ultra-violet (UV) radiation
	10.2.5 Lifting
	10.2.7 Marking
	10.2.8 Mechanical operation tests
	10.4 Verification of Clearances and Creepage distances
	10.2.6 Verification of the IK coding
	10.3 Verification of the IP coding
	10.9.2 Power-frequency withstand voltage
	10.9.3 Impulse withstand voltage
	10.10 Temperature-rise tests
	10.2.2 Resistance to corrosion- damp heat cycling test (Db)
	10.2.2 Resistance to corrosion- salt mist test (Ka)
	10.2.3.1 Thermal stability (dry heat test)
IEC 62208	Empty enclosures for low-voltage switchgear and controlgear assemblies –
	General requirements
	8.8, 9.8 Verification of the IP coding
	9.3 Marking
	9.5 Lifting
	9.7 Verification of the IK coding
	9.9.1 Thermal stability (dry heat test)
	9.9.3 Resistance to abnormal heat and fire due to internal electric effects (glow-
	wire test)
	9.10 Power-frequency withstand voltage.
	9.13 Resistance to corrosion- damp heat cycling test (Db)
	9.13 Resistance to corrosion- salt mist test (Ka)
	one resistance to composer care more took (rea)
IEC 62271-1	High-voltage switchgear and controlgear – Part 1: Common specifications for al-
120 022711	ternating current switchgear and controlgear.
	Subclauses:
	7.2.7 tests of switchgear and controlgear of U _r ≤ 245 kV
	7.2.8.2 Power Frequency voltage tests.
	7.2.8.3 Switching impulse voltage tests.
	7.2.8.4 Lightning impulse voltage tests
	7.2.10 Partial discharge tests
	7.2.11 Dielectric tests on auxiliary and control circuits
	7.3 Radio interference voltage (RIV) test
	7.4 Resistance measurement
	7.5 Continuous current tests
	7.7(1,2) Verification of the IP coding, Verification of the IK coding
	7.8 Tightness tests 7.9.1 Emission tests
Altornotina Comment	7.10 Additional tests on auxiliary and control circuits
Alternating Current	CITCUIT-Dreakers



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IEC 62271-100	High-voltage switchgear and controlgear – Part 100: Alternating-current cir-
	cuit-breakers
	(Clauses:
	7.2.7.2, 7.2.8.2 Power Frequency voltage tests
	7.2.7.3, 7.2.8.4 Lightning impulse voltage tests
	7.2.8.3 Switching impulse voltage tests
	7.3 Radio interference voltage (RIV) test
	7.4 Resistance measurement
	7.5 Continuous current tests (Temperature-rise tests.)
	7.7 (1,2) Verification of the protection (IP/IK)
	7.8 Tightness tests
	7.10 Additional tests on auxiliary and control circuits
	7.101 Mechanical and Environmental test
Alternating Current I	Disconnectors and Earthing Switches
IEC 62271-102	High-voltage switchgear and controlgear – Part 102: Alternating current dis-
	connectors and earthing switches.
	Clauses:
	7.2 Dielectric tests
	7.3 Radio interference voltage (RIV) test
	7.4 Resistance measurement
	7.5 Continuous current tests
	7.7 Verification of the protection
	7.8 Tightness tests
	7.10 Additional tests on auxiliary and control circuits
	7.102 Operating and mechanical endurance tests
Alternating Current	Switches for Rated Voltages Above 1 kV Up to and Including 52 kV
IEC 62271-103	High-voltage switchgear and controlgear – Part 103: Alternating current
120 02271 100	switches for rated voltages above 1 kV up to and including 52 kV.
	clauses:
	7.2 Dielectric tests
	7.3 Radio interference voltage (RIV) test
	7.4 Resistance measurement
	7.5 Continuous current tests
	7.7 Verification of the protection
	7.8 Tightness tests
	7.10 Additional tests on auxiliary and control circuits
AOM-()	7.102 Operating and mechanical endurance tests
	Switchgear and Controlgear Rated Voltages Above 1 kV and Up to and In-
cluding 52 kV	History and the second sectors of the sectors of the second sectors of the sectors o
IEC 62271-200	High-voltage switchgear and controlgear – Part 200: AC metal-enclosed
	switchgear and controlgear for rated voltages above 1 kV and up to and in-
	cluding 52 kV.
	Subclauses:7.2.7
	7.2.10 Partial discharge tests
	7.2.11 Dielectric test on auxiliary and control circuits
	7.4 Resistance measurement
	7.5 Continuous Current tests (Heat temperature rise tests)
	7.7(1,2) Verification of the IP coding, Verification of the IK coding
	7.8 Tightness tests
	7.102 Mechanical operation tests
	7.103 Pressure withstand test for gas-filled compartments.



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	7 404 Tests to verify the pretection of neverne excinct depressure electrical
	7.104 Tests to verify the protection of persons against dangerous electrical effects
Gas-insulated Metal-	enclosed Switchgear for Rated Voltages Above 52 kV
IEC 62271-203	High-voltage switchgear and controlgear – Part 203: AC gas-insulated metal-enclosed switchgear for rated voltages above 52 kV Clauses: 7.2.7.2, 7.2.8.2 Power Frequency voltage tests 7.2.7.3, 7.2.8.4 Lightning impulse voltage tests 7.2.8.3 Switching impulse voltage tests 7.2.10 Partial discharge tests 7.2.11 Dielectric test on auxiliary and control circuits 7.3 Radio interference voltage (RIV) test 7.4 Resistance Measurement
	 7.5 Temperature-rise tests 7.7 Verification of the protection (IP/IK) 7.8 Gas tightness tests 7.10 Additional tests on auxiliary and control circuits 7.102 Mechanical and Environmental test
IEC 60068-2-2	Environmental testing - Part 2-2: Tests - Test B: Dry heat
IEC 60068-2-75	Environmental Testing – Part 2-75: Tests – Clause 5 Test Eha: Pendulum Hammer
IEC 61300-2-22	Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-22: Tests – Change of temperature
IEC 62561	Lightning protection system components (LPSC) – Part 1: Requirements for connection components Subclauses: Annex A.2 Resistance to corrosion- salt mist test cyclic (Kb)
IEC 62262	Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)
Power Transformers	
IEC 60076-1	Power transformers – Part 1: General (only clauses 11.2, 11.4 and 11.5) Subclauses: 11.1.2.1(i) Check of the ratio and polarity of built-in current transformers 11.1.2.2 (a & c) & 11.1.4 (c & d) Measurement of capacitance and (tan δ) of windings 11.1.2.2(e), 11.1.3(e) Measurement of no-load loss and current at 90% and 110% of ratted voltage 11.1.3(d) Measurement of the power taken by fan and liquid pump motor 11.1.4(l) Measurement of Frequency Response Analysis (FRA) 11.3 Measurement of Voltage Ratio and Check of Phase Displacement 11.2, 14.2.6 Induced voltage withstand test (IVW) 11.3 Induced Voltage with Partial discharge measurement (IVPD) 11.6 Measurement of zero-sequence impedance(s) on three phase Transformers 11.7 Tests on on-load tap-changers — Operation test 11.12, 11.1.2.2(b), 11.1.4(h) Measurement of DC Insulation Resistance Test
IEC 60076-2	Power transformers - Part 2: Temperature rise for liquid-immersed transformers (only clause 7)
IEC 60076-3	Power transformers – Part 3: Insulation levels, dielectric tests and external clearances in air Subclauses:



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	0.1 1.1 () () () () () () ()
	9 Insulation of auxiliary wiring (AuxW)
	10 Applied Voltage
	11.2 Induced voltage withstand test (IVW)
	11.3 Induced Voltage with Partial discharge measurement (IVPD)
	12 Line terminal AC withstand test (LTAC)
	13 and 14)
IEC-60076-10	Power transformers - Part 10: Determination of sound levels (only clause 11.2)
IEC 60076-11	Power transformers – Part 11: Dry-type transformers
	Subclauses:
	14.2.1 Measurement of winding resistance
	14.2.2 Measurement of Voltage Ratio and Check of Phase Displacement
	14.2.3 Measurement of short -circuit impedance and load loss
	14.2.4 Measurement of no-load loss and current
	14.2.5 Applied voltage test (AV)
	14.2.6 Induced voltage withstand test (IVW)
	14.2.7 Induced Voltage with Partial discharge measurement (IVPD)
	14.3 Type tests
	14.4.2 Measurement of sound level
IEC 60076-18	Power transformers- part 18: measurement of frequency response
IEC-60270	High-voltage test techniques - Partial discharge measurements
Electrical Relays and F	
IEC 60068-2-6	Environmental testing – Part 2-6: Tests – Test Fc: Vibration (sinusoidal)
IEC 60255-21-1	Electrical relays Part 21: Vibration, shock, bump and seismic test on meas-
120 00200 21 1	uring relays and protection equipment Section One — Vibration tests (sinus-
	oidal)
Insulators Rated Voltage	
IEC 60168	Tests on indoor and outdoor post insulators of ceramic material or glass for
120 00 100	systems with nominal voltages greater than 1000 V
	Subclauses:
	4.5 Dry lightning impulse voltage test
	4.7, 4.8 Wet/dry power frequency voltage test
	4.6 Dry/Wet switching impulse voltage test
	4.9 Power frequency puncture overvoltage test
	4.10 Routine electrical test
IEC 60372	Locking devices for ball and socket couplings of string insulator units Dimen-
160 00372	sions and tests
	Subclause:
IEC 60393 4	4.2, 4.3 Verification of dimensions and visual inspection Insulators for overhead lines with a nominal voltage above 1000 V –
IEC 60383-1	
	Part 1: Ceramic or glass insulator units for a.c. systems – Definitions, test
	methods and acceptance criteria
	Subclauses:
	12 Dry lightning impulse voltage test
	13 Wet/dry power frequency voltage test
	15 Power frequency puncture overvoltage test
	16 Routine electrical test
	17, 22, 29 Verification of dimensions and visual inspection Part 2: Insulator strings and insulator sets for a.c. systems - Definitions, test
IEC 60383-2	



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	methods and acceptance criteria
	methods and acceptance criteria Subclauses:
	9 Dry lightning impulse voltage test
	10 Wet/dry power frequency voltage test
150 00 407	11 Dry/Wet switching impulse voltage test
IEC 60437	Radio interference test on high-voltage insulators
IEC 60507	Artificial pollution tests on high-voltage ceramic and glass insulators to be
	used on a.c. systems.
	Only clauses 5 and 6
IEC 60660	Insulators – Tests on indoor post insulators of organic material
	for systems with nominal voltages greater than 1000 V up to but not includ-
	ing 300 kV
	Subclauses:
	3.3 Dry lightning impulse voltage test
	3.4 Wet/dry power frequency voltage test
	3.5 Partial discharge measurement
IEC 61109	Insulators for overhead lines – Composite suspension and tension insulators
	for a.c. systems with a nominal voltage greater than 1 000 V – Definitions,
	test methods and acceptance criteria
	Subclauses:
	11.1 (table 3) Dry lightning impulse voltage test
	11.1 (table 3) Wet/dry power frequency voltage test
	11.1 (table 3) Dry/Wet switching impulse voltage test
	10.2.2 Polymeric insulator tracking and erosion test
	12.3, 13.2 Verification of dimensions and visual inspection
IEC 61462	Composite hollow insulators - Pressurized and unpressurized insulators for
IEC 01402	
	use in electrical equipment with AC rated voltage greater than 1 000 V AC
	and D.C. voltage greater than 1500V - Definitions, test methods, acceptance
	criteria and design recommendations
IEO 040E0	Only clause 7.3.3
IEC 61952	Insulators for overhead lines – Composite line post insulators for A.C. sys-
	tems with a nominal voltage greater than 1 000 V – Definitions, test methods
	and acceptance criteria
	Subclauses:
	11.1 Wet/dry power frequency voltage test
	11.1 Dry/Wet switching impulse voltage test
	10.2.2 Polymeric insulator tracking and erosion test
IEC 62155	Hollow pressurized and unpressurized ceramic and glass insulators for use
	in electrical equipment with rated voltages greater than 1000 V
	Subclauses:
	10.4 Routine electrical test
IEC 62217	Polymeric HV insulators for indoor and outdoor use – General definitions,
	test methods and acceptance criteria
	9.2.4 Wet/dry power frequency voltage test
	9.3.3 Polymeric insulator tracking and erosion test
IEC 62231	Composite station post insulators for substations with a.c. voltages greater
	than 1 000 V up to 245 kV – Definitions, test methods and acceptance crite-
	ria
	Subclauses:
	9.2.2, 8.2.3 Wet/dry power frequency voltage test
IEC TS 62896	Hybrid insulators for a.c. and d.c. high-voltage applications – Definitions, test
10 10 02090	r rybrid irrodiators for a.c. and d.c. riight-voltage applications — Definitions, test





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	methods and acceptance criteria
	Subclauses:
	9.2 Dry lightning impulse voltage test
	, , , ,
	9.2 Wet/dry power frequency voltage test
	9.2 Dry/Wet switching impulse voltage test
	8.3.3 Polymeric insulator tracking and erosion test.
	9.2 Power frequency puncture overvoltage test, clause 6
	8.2.3.2 Verification of dimensions and visual inspection
Insulating Bushin	gs Rated Voltage Above 1 kV
IEC 60137	Locking devices for ball and socket couplings of string insulator units Dimen-
	sions and tests
	Subclauses:
	8.4, 9.3 Dry lightning impulse voltage test
	8.5 Dry or Wet switching impulse voltage withstand test.
	8.2, 8.3, 9.4 Wet/dry power frequency voltage test
	8.14 Verification of dimensions and visual inspection
	9.5 Partial discharge measurement
	8.8 Temperature rise test.
	· ·
	9.2 Measurement of dielectric dissipation factor (tan δ) and capacitance at
	ambient temperature
Environmental	
IEC 60529	Degree of Protection Provided by Enclosures (IP Code)
	(except IP5x, IP6x and IPx9)

