Annex to declaration of accreditation (scope of accreditation)
Normative document: EN ISO/IEC 17025:2017
Registration number: **L 020**

of **KEMA B.V.**
High Power Laboratory and High Voltage Laboratory

This annex is valid from: **07-08-2026** to **01-04-2030** Replaces annex dated: **19-03-2026**

Location(s) where activities are performed under accreditation

Head Office

Klingelbeekseweg 195
6812 DE
Arnhem
The Netherlands

Location	Abbreviation/ location code
Klingelbeekseweg 195 6812 DE Arnhem The Netherlands	ARN
On-site	OS

No.	Material or product	Type of activity[1]	Internal reference number	Location
Flexible scope[(2)]				
Dielectric test				
1.	Electrical equipment	Power-frequency voltage test (AC) (≤ 900 kV, 45-500 Hz)	ISI-GSA-1227	ARN, OS
2.		DC voltage test (≤ 800 kV)		ARN
3.		Lightning impulse voltage test (LI) (≤ 2,4 MV)		ARN, OS
4.		Switching impulse voltage test (SI) (≤ 2,0 MV)		
5.	Electrical equipment	Test under wet conditions (AC / DC / LI / SI)	ISI-GSA-1227	ARN

This annex has been approved by the Board of the Dutch Accreditation Council, on its behalf,

J.A.W.M. de Haas

[1] If there is a referral to a code starting with NAW, NAP, EA or IAF, this concerns a scheme mentioned on the RvA-BR010-lijst.
If no date or version number is mentioned for a normative document, the accreditation concerns the most current version of the document or scheme.
[(2)] The laboratory is obliged to maintain an up-to-date list of activities performed under this flexible scope. This list can be requested from the laboratory.

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No.	Material or product	Type of activity[1]	Internal reference number	Location
6.	Electrical equipment	Partial discharge measurement (all above noise level)	ISI-GSA-1227	ARN, OS
7.		Radio interference voltage measurement (all above noise level)		
8.		Tan δ and capacitance measurement		
9.		Impulse puncture test / Steep front-of-wave flashover test (≤ 400 kV)		ARN
10.		Corona measurement (any visible corona)		
		Short-circuit test		
11.	Electrical equipment	Short-time withstand current and peak withstand current test I_{peak} ≤ 1200 kA	ISI-GSA-1227 IEC 6227-200 for duration and acceptance criteria entry 11	ARN
12.		Ability to withstand short circuit / Short-circuit current tests / Short-time current tests (≤ 1200 kV and ≤ 400kA)		ARN, OS
13.		Short-circuit making and breaking tests / Interruption tests / Terminal fault test (≤ 1200 kV and ≤ 400kA)		ARN
14.		Breaking tests / Interruption tests / Time current tests on fuses (≤ 245 kV and ≤ 400kA)		
15.		Inrush current withstand test / Discharge current test (≤ 600kV and ≤ 200kA)		
16.		Short-line fault tests (≤ 1200 kV and ≤ 400kA)		
17.		Out-of-phase making and breaking tests (≤ 1200 kV and ≤ 400kA)		
18.		By-pass making and insertion tests (≤ 1200 kV and ≤ 400kA)		
19.		Time current tests on autorecloser (≤ 400kA)		
20.		Internal arc fault tests / Internal fault test (≤ 1200 kV and ≤ 400kA)		
21.		Power arc test on insulators (≤ 400kA)		ARN
22.		Short-circuit tests on arrester (≤ 400kA)		

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No.	Material or product	Type of activity[1]	Internal reference number	Location
		Switching test		
23.	Electrical equipment	Switching making and breaking test ≤ 1200 kV	ISI-GSA-1227	ARN
24.		Capacitive current switching tests ≤ 1200 kV		
25.		Bus-transfer current switching tests ≤ 1200 kV		
26.		Induced current switching tests ≤ 1200 kV		
27.		Bus-charging current switching tests ≤ 1200 kV		
28.		Inductive load switching tests ≤ 1200 kV		
29.		Verification of coordination with short-circuit protection device ≤ 1200 kV		
30.		Minimum tripping current test		
		Accuracy test		
31.	Electrical equipment	Tests for accuracy of instrument transformers (incl. LPIT's) (CT: continuous current ≤ 60 kA, 50-60 Hz) (CT: transient current ≤ 400 kA) (VT: ≤ 500 kV, 50-60 Hz)	ISI-GSA-1227	ARN
32.		Measurement of voltage ratio and check of phase displacement on power transformers and reactors		ARN, OS
		Environmental- and temperature test		
33.	Electrical equipment	Climatic and environmental tests, ageing test, (-40 ˚C to +60 ˚C, 50 %rh to 99 %rh)	ISI-GSA-1227	ARN, OS
34.		Condensation test / Salt fog test / Tracking and erosion test		
35.		Pollution test (≤ 350 kV)		ARN
36.		Temperature cycle test / Thermal shock test / Immersion test		

No.	Material or product	Type of activity[1]	Internal reference number	Location
37.	Electrical equipment	Heating cycle test / Heating cycle voltage test / Long term stability test / Long duration test	ISI-GSA-1227	ARN
38.		Temperature-rise test / Continuous current test / thermal stability test (≤ 25 kA, three-phase) (≤ 50 kA, single-phase)		ARN, OS
		Material test		
39.	Electrical equipment	Porosity test porcelain on insulators	ISI-GSA-1227	ARN
40.		Water absorption test on insulators		
41.		Water penetration test on cables (≤ 3 bar)		
42.		Galvanizing test		
		Mechanical test		
43.	Electrical equipment	Pressure withstand test for gas-filled compartments (≤ 20 bar)	ISI-GSA-1227	ARN
44.		Tensile test / mechanical test / (electro-)mechanical failing load test / verification of the locking system (≤ 500 kN)		
45.		Impact test (Insulators: ≤ 10 Nm) (Cable accessories)		
46.		Mechanical endurance/operation tests at ambient temperature / Low- and High-temperature tests (-40˚C to +60˚C)		
47.		Operation during the application of rated static mechanical terminal loads (≤ 1000 kN)		
48.		Thermal-mechanical performance test on insulators (≤ 300 kN; -50˚C to +70˚C)		
49.		Test to verify the proper functioning of the position-indicating device		
50.		Mechanical shock tests on fuses		

No.	Material or product	Type of activity[1]	Internal reference number	Location
51.	Electrical equipment	Striker operation tests on fuses	ISI-GSA-1227	ARN
52.		Cantilever load- and internal pressure test on insulators		
53.		Mechanical test on instrument transformers		
54.		Bending tests on cables		
		Resistance and impedance measurement		
55.	Electrical equipment	Resistance measurement	ISI-GSA-1227	ARN, OS
56.		Impedance measurement		
57.		Measurement of blocking impedance		ARN
		Verification of degree of protection		
58.	Electrical equipment	Verification of the IP coding (≤ IP56)	ISI-GSA-1227	ARN
59.		Mechanical impact test (IK07-IK10)		
		Tightness and leakage test		
60.	Electrical equipment	Tightness tests / Gas Tightness test / Leak test of tightness test / Enclosure tightness test	ISI-GSA-1227	ARN, OS
		Sound level measurement		
61.	Electrical equipment	Sound level measurement	ISI-GSA-1227	ARN, OS
		Power measurement		
62.	Electrical equipment	Power measurement	ISI-GSA-1227	ARN, OS
		SFRA measurement		
63.	Electrical equipment	SFRA measurement	ISI-GSA-1227	ARN, OS
		Examination		
64.	Electrical equipment	Determination of dimensions / Gauging	ISI-GSA-1227	ARN, OS

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65.	Electrical equipment	Verification of displacements on insulators	ISI-GSA-1227	ARN
		Operation tests		
66.	Electrical equipment	On load tap changer tests	ISI-GSA-1227	ARN, OS
		Material Testing Laboratory		
67.	Electrical equipment	Solar radiation	ISI-GSA-1227	ARN
68.		Glow wire test		
69.		Determination of temperature of deflection under load temperature of 135 °C pressure of 1,8 MPa		
70.		Measurement of insulation thickness		
71.		Measurement of thickness of non-metallic sheath		
72.		Measurement of overall dimensions		
73.		Thermal ageing methods. Ageing in an air oven		
74.		Water absorption test		
75.		Loss of mass test for thermoplastic insulations and sheath		
76.		Tests for determining the mechanical properties of insulating and sheathing compounds: tensile strength and elongation		
77.		Shrinkage test for insulations		
78.		Shrinkage test for sheaths		
79.		Elongation at low temperature for insulations and sheaths		
80.		Impact test at low temperature for insulations and sheaths		
81.		Hot set test for crosslinked materials		

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No.	Material or product	Type of activity[1]	Internal reference number	Location
82.	Electrical equipment	Pressure test at high temperature for insulation and sheaths	ISI-GSA-1227	ARN
83.		Test for resistance of insulations and sheaths to cracking (heat shock test)		
84.		Measurement of carbon black and/or mineral filler in polypropylene compounds		