

List of FAT for transformers 72,5 kV < Um ≤ 170 kV		
No	Test	Standard
Routine tests (each unit)		
1.	Leak testing with pressure	IEC 60076-1 (11.8)
2.	Measurement of exciting currents	
3.	Measurement of voltage ratio and check of phase displacement	IEC 60076-1 (11.3)
4.	Measurement of winding resistance	IEC 60076-1 (11.2)
5.	Measurement of dissipation factor and insulation system capacitances	IEC 60076-1 (11.1.2)
6.	Measurement of d.c. insulation resistance	IEC 60076-1 (11.1.2)
7.	Check of core and frame insulation – before tanking	IEC 60076-1 (11.12)
8.	Lightning impulse test (LI)	IEC 60076-3 (13)
9.	Applied voltage test (AV)	IEC 60076-3 (10)
10.	Line terminal AC withstand test (LTAC) – for non uniform insulation	IEC 60076-3 (12)
11.	Induced voltage test with partial discharge measurement (IVPD)	IEC 60076-3 (11.3)
12.	Measurement of no-load loss and current (HV-MV, HV-LV)	IEC 60076-1 (11.5)
13.	Measurement of short-circuit impedance and load loss	IEC 60076-1 (11.4)
14.	Tests on on-load tap-changers	IEC 60076-1 (11.7)
15.	Measurement of physicochemical properties of oil (before and after FAT)	IEC 60422
16.	Dissolved gasses in oil analysis (before and after FAT)	IEC 60567



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List of tests after transformer assembly 72,5 kV < Um ≤ 170 kV

Nr	Test
1.	Measurement of exciting currents
2.	Measurement of voltage ratio and check of phase displacement
3.	Measurement of winding resistance
4.	Measurement of d.c. insulation resistance
5.	Checking the functional operation of the auxiliary equipment
6.	Measurement of physicochemical properties of oil
7.	Dissolved gasses in oil analysis