

IEEE PC57 12 152 Section 4 Diagnostic Test Chart Draft 02212010.xls

Diagnostic Test Chart						
<u>Component</u>	<u>First Sub-Component</u>	<u>Second Sub-Component</u>	<u>Test</u>	<u>Transformers</u>	<u>Reactors</u>	<u>Regulators</u>
Windings			Insulation Resistance	X	X	X
			Ratio/Polarity/Phase	X		X
			Excitation Current	X	X	X
			Leakage Reactance	X		
			Winding Resistance	X	X	X
			Capacitance	X	X	X
			Power Factor/Dissipation Factor	X	X	X
			Induced Voltage/Partial Discharge/RIV	X	X	
			Frequency Response Analysis	X	X	X
			Paper Insulation DP	X	X	X
Bushings			Capacitance	X	X	X
			Dielectric Loss ?	X	X	X
			Power Factor/DF, C1, C2	X	X	X
			Partial Discharge	X	X	X
			Temperature (Infrared)	X	X	X
			Oil Level	X	X	X
			Visual Inspection	X	X	X
Insulating Fluid			Water Content	X	X	X
			Dissolved Gas	X	X	X
			Dielectric Strength	X	X	X
			Particle Count	X	X	X
			Dielectric Loss ?	X	X	X
			Power Factor/Dissipation Factor	X	X	X
			Interfacial Tension	X	X	X
			Acidity	X	X	X
			Visual	X	X	X
			Color	X	X	X
			Oxidation Stability	X	X	X
		Furan	X	X	X	
		Corrosive Sulphur	X	X	X	
Tap Changers	Load		Contact Continuity	X		X
			Temperature (Infrared)	X		X
			Ratio	X		X
			Timing	X		X
			Motor Currents	X		X
			Limit Switch	X		X

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	De-Energized		Contact Pressure	X		
			Centering	X		
			Ratio	X		
			Visual Inspection	X		
Core			Insulation Resistance	X	X	X
			Ground Test	X	X	X
Tanks and Associated Devices	Tank		Pressure	X	X	X
			Vacuum	X	X	X
			Dew Point	X	X	X
			Temperature (Infrared)	X	X	X
			Visual Inspection	X	X	X
	Conservator		Visual	X	X	
	Inert Air System		Visual	X	X	
			TCG	X	X	
	Gauges		Visual	X	X	X
			Calibration	X	X	
	Fault Pressure Relay		Calibration	X	X	
			Continuity	X	X	
	Cooling System	Heat Exchanger	Air Flow	X	X	
			Visual	X	X	X
			Cleaning	X	X	X
		Fans	Rotation	X	X	
			Controls	X	X	
			Visual	X	X	
		Pumps	Rotation	X	X	
			Currents	X	X	
			Bearings	X	X	
Current Transformer			Ratio	X	X	X
			Polarity	X	X	X
			Resistance	X	X	X