

132/33/11 kV Substation Commissioning Checklist

Location
Date:
Bay:

	(a) Cur	r	Remarks		
		R	Y	В	
1.	Insulation resistance				
2.	Ratio and polarity				
3.	Magnetization curve				
4.	Burden				
5.	Star point check				
6.	Double grounding check				
7.	Body grounding				
8.	Core allocation				
9.	Unused core grounding				

(b) Potential Transformer				Remarks	
		R	Y	В	
1.	Insulation resistance				
2.	Ratio				
3.	Burden				
4.	Body grounding/ primary grounding				
5.	Core Allocation				



	(c) Breaker	Remarks
1.	Insulation Resistance	
2.	Remote/Local Operation	
3.	Interlock	
4.	Contact Resistance	
5.	Timing test	
6.	Anti-pumping	
7.	TCS Relay	
8.	Pressure monitor	
9.	Body grounding	

	(d) Lightning Arrester	Remarks
1.	Insulation Resistance	
2.	Counter	
3.	Body grounding	

	(e) Isolator	Remarks
1.	Insulation Resistance	
2.	Contact resistance	
3.	Remote & Local operation	
4.	Motor Current	
5.	CT switching	



		(f) Earth Switch	Remarks
1.	Interlock		
2.	Operation		
3.	Contact resistance		
4.	Grounding		

	(g) Relay & Control Panel	Remarks
1.	Panel grounding	
2.	Relay body grounding	
3.	DC changeover	
4.	Cable dressing	

	(h) Battery charger and battery	Remarks
1.	Charging test	
2.	Battery capacity test	
3.	Cell voltage	
4.	Specific gravity of electrolyte	



	(i) Transformer	Remarks
1.	Insulation Resistance	
2.	Winding resistance	
3.	HT, LT excitation	
4.	Turn ratio	
5.	Magnetic balance	
6.	Tan-delta	
7.	BCT test	
8.	Oil BDV	
9.	WTI and OTI	
10.	PRD and Buchholz relay	
11.	Arcing horn gap	
12.	Fan operation	
13.	Tap changer remote and local operation & auto mode	
14.	Air release from all valve and valve position	

Commissioning Overall Report

Commissioning Engineer: Signature:

Date: