

Tests on Power Transformers (Contd.)

C. Short Circuit Test.

Tap Position	Applied voltage Volts.	Short Circuit Current in Amps						Remarks
		H. V. Side			L. V. Side			
		R	Y	B	R	Y	B	
First								All the three phases on L.V. side shorted
Normal								
Last								

D. Open Circuit Test

Tap Position	Applied voltage Volts	Open Circuit Current in m.a.			Remarks
		H. V. Side only			
		R	Y	B	
First					
Normal					
Last					

E. Test on Thermometers.

Sl. No.	Oil Thermometer		Winding Thermometer		Remarks
	Temp. read by Thermometer under test	Temp. read by Sub-standard Thermometer	Temp. read by Thermometer under test	Temp. read by Sub-standard Thermometer	
1.					
2.					
3.					

F. D. C. Resistance by Kelvin's Bridge

Tap Position	H.V. Winding in Ohms.						L.V. Winding Ohms.						Tertiary winding in ohms	Remarks	
	R-Y	Y-B	B-R	R-N	Y-N	B-N	R-Y	Y-B	B-R	R-N	Y-N	B-N			
First															
Normal															
Last															

Counter-signed

Tested by

Executive Engineer (T&C)

Assistant Engineer (T&C)

Routine Test Results

Name of S/s :—

Date.....

Name of Transformer :—

Checking of C.T. Secondary Currents :—

Phase	Ammeter Reading as read on C.P.	H.V. Side			L.V. Side			Remarks
		Core I	Core II	Core III	Core I	Core II	Core III	
R								
Y								
B								
N								

Note :— Indicate the circuit connected on each core clearly in Remarks.

General Checking :

1. Tripping of both side CB's by:—
 - (a) Differential Relay :—
 - (b) Over Current Relay :—
 - (c) Buchholz Relay :—
 - (i) By Actual pumping :—
 - (ii) By Shorting Terminal :—
2. Tripping of L.V. side C.B. by L.V; side E/F Relay :—
3. Oil Temperature Indication :—
4. Winding Temperature Indication :—
5. Trip ckt. Healthy of H.V. side C.B. :—
6. Trip ckt. Healthy of L.V. side C.B. :—
7. Trip and non trip Alarms :—
8. Annunciation Relays of Various Protections :—
9. Semaphore Indications :—
10. Other Indications Checking :—
 - (i)
 - (ii)
 - (iii)
 - (iv)
11. Other Remarks, if any.

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Final Setting

Name of S/S or P/H.....

Name of Transformer.....

Date.....

1. Over Current relays
- (a) Current
 - (b) TMS
 - (c) Instantaneous

2. Earth Fault Relay
- (a) Current
 - (b) TMS

3. Differential relays
- (a) Bias
 - (b) Current
 - (c) TMS

4. Thermometer Settings
- (a) First group
 - (b) Second group
 - (c) Oil Temperature
 - (d) Winding temperature
- Cooling fan :
- Starts at
 - Stops at
 - Starts at
 - Stops at

5. Restricted Earth Fault Relay :—
- Value of stabilizing Resistance =ohms.

6. Any other Settings.

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