INSPECTION AND TEST PLAN (ITP)

PROJECT :	Dry Type Transformer Manufacturing and Testing.			**JOB NUMBER (PO #):**	
ITP DOCUMENT No. :		**Rev. :**	0	**DATE :**	**Page :**
SYSTEM DESCRIPTION :	Dry Type Transformer.			**APPLIED CODE :**	

Item No.	DESCRIPTION	STANDARD / PROCEDURE	INSPECTION		INSPECTION POINT SIGNATURE									CERTIFICATE/ REPORT	REMARKS
					PEC QA/QC			SUPERVISIONG COMPANY			SICHUAN TRANSFROMERS				
			TYPE	%	IP	Date	Sign	IP	Date	Sign	IP	Date	Sign		
1	**Approvals and Reviews**														
1.1	Review Technical Drawings	Review technical drawings according to GB1094.1.2-2013, ensuring compliance with the technical specifications for the dry-type transformer.	Review	100	R			R						Technical Drawings Review Report	
1.2	Raw Material Quality Check	Inspect raw materials using GB1094.1.2-2013, ensuring they meet the quality requirements specified in the standards.	Visual Test (VT)	100	H			H						Material Inspection Report (MRIR)	
2	**Manufacturing Tests**														
2.1	Voltage Ratio Deviation Test	Measure the voltage ratio between high voltage and low voltage according to GB1094.1.2-2013, recording the measured values and comparing them with the specified limits.	Electrical Test	100	W			W						Voltage Ratio Test Report	
2.2	Insulation Resistance Test	Measure the insulation resistance between windings and ground using GB1094.1.2-2013, recording the values and ensuring they are within permissible limits.	Electrical Test	100	W			W						Insulation Resistance Test Report	
2.3	Applied Voltage Withstand Test	Apply high voltage for one minute according to GB1094.1.2-2013, recording the applied voltage and observing any discharge or failure.	High Voltage Test	100	W			W						Applied Voltage Test Report	If Needed
2.4	Induced Voltage Withstand Test	Apply induced voltage to test insulation between windings according to GB1094.1.2-2013, recording the induced voltage and observing any discharge or failure.	High Voltage Test	100	W			W						Induced Voltage Test Report	
2.5	Partial Discharge Test	Measure the partial discharge level in the transformer using GB1094.1.2-2013, recording the discharge level and ensuring it is within permissible limits.	Partial Discharge Test	100	W			W						Partial Discharge Test Report	
2.6	No-Load Loss Test	Measure the no-load loss according to GB1094.1.2-2013, recording the loss value and comparing it with the specified limits.	Electrical Test	100	W			W						No-Load Loss Test Report	If Needed
2.7	Load Loss Test	Measure the load loss according to GB1094.1.2-2013, recording the loss value and comparing it with the specified limits.	Electrical Test	100	W			W						Load Loss Test Report	
2.8	DC Resistance Test	Measure the winding resistance using DC current according to GB1094.1.2-2013, recording the resistance values and ensuring they are within permissible limits.	Electrical Test	100	W			W						DC Resistance Test Report	
3	**Final Tests**														
3.1	Final Visual Inspection	Perform a visual inspection of the transformer to ensure there are no visible defects, such as cracks or damage, according to GB1094.1.2-2013.	Visual Test (VT)	100	H			H						Final Visual Inspection Report	
3.2	Review All Documents	Review all documents related to the transformer according to GB1094.1.2-2013, ensuring completeness and accuracy.	Review	100	H			H						Document Review Report	

Sichuan Zhongxin General Electric Energy Co.,Ltd.

Dry Type Transformer Factory Test Plan

I, Product Specification

Product Type Code: SCB---　　Factory Serial No.:

Rated Capacity:　　Engineering Drawing No.:

Rated Voltage:　　Rated Frequency:

Rated Current:　　Vector Group:

Weight:　　Cooling Method:

II, Test Data

1,Voltage Ratio Deviation　　Voltage Vector Relation Test

Tap Position	AB/ab	BC/bc	AC/ac	Tap Position	AB/ab	BC/bc	AC/ac
1				6			
2				7			
3				8			
4				9			
5							

2, DC resistance (Ω)　　Temperature: ℃

Tap Position	High Voltage Resistance			Tap Position	High Voltage Resistance		
	AB	BC	AC		AB	BC	AC
1				6			
2				7			
3				8			
4				9			
5							
Low Voltage Resistance	a-0		b-0			c-0	

3, Insulation Test

	Insulation Class	
Insulation Resistance Temperature	High Voltage—Low Voltage	MΩ
	Low Voltage—High Voltage, Ground	MΩ
	High Voltage—Low Voltage, Ground	MΩ
	Iron Core--Ground	MΩ
Applied Voltage Withstand Test 1 Minute	Low Voltage—High Voltage, Ground	KV
	High Voltage—Low Voltage, Ground	KV
Induced Voltage Withstand Test 1 Minute	Voltage	%
	Frequency	HZ

4, Performance Test

No-Load Loss (W)		No-Load Loss (%)	
Load Loss (W)		Impedance Voltage(%)	

5, Partial Discharge Test

Phase Sequence	A phase	B phase	C phase
Partial Discharge Magnitude/Level (PC)			

III, Conclusion

The product has passed tests, and comply to the regulation in GB1094.3-2017 GB1094.1.2-2013 GB/T10228-2023 GB20052-2020, and is approved for delivery.

Inspector: Reviewer: Date: