	Inspection	on and Tes	t Plan for	Gas Circu	it Br	eak	er		
NI.		Reference Document	Acceptance Criteria		Activity By			Remark	
No.	Inspection and Test Plan			Verifying Document	Manuf.	TPI	Client	-	
1	Pre-Inspection Meeting	Spec.	Spec.	МОМ	Н	Н	Н	-	
			Before Manufacturing						
2	DWG, Design, Calculation Document	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	DWG, Calculation book	н	R	А	-	
3	WPS&PQR	ASME IX	ASME IX	Welding Book	Н	R	А	-	
4	Welder Qualification Certificates	ASME IX	ASME IX	Certificates	н	R	-	-	
5	NDT procedures	ASME V	ASME V	Procedures	Н	R	А	-	
6	NDE Personnel Certificates	ASME IX	ASME IX	Certificates	Н	R	-	-	
7	Pressure Test Procedure	ASME VIII	ASME VIII	Procedure	н	R	А		
8	Leakage Test Procedure	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	Procedure	Н	R	А		
9	Stored Energy System Test Procedure	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	Procedure	Н	R	А		
10	Main Circuit Power Frequency Voltage Dry Tension Test Procedure	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	Procedure	H	R	А		
11	Voltage on Control and Auxiliary Circuit Test Procedure	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	Procedure	Н	R	А		

12	Main Circuit Resistance Test Procedure	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	Procedure	Н	R	А			
13	Mechanical Operation Test Procedure	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	Procedure	Н	R	А			
14	Timing Test Procedure	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	Procedure	Н	R	А			
15	Compressor Operation Test Procedure	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	Procedure	Н	R	А			
16	Painting Procedure	SSPC	SSPC	Procedure	Н	R	Α	-		
	Materials									
17	Raw Material Inspection	ASTM	ASTM	Original Material Certificates	Η	н	ı	-		
18	Review of Certificates	ASTM	ASTM	Certificates	н	Н	1	-		
19	Material Identification	ASTM	ASTM	Report	Н	Н	-			
			<b>During Fabrication</b>							
20	Assembly Inspection	DWG	DWG	Report	н	SW	-			
21	Welding Inspection for Required Welding Components	WPS	WPS	Report	н	SW	-			

22	Checking of Outline Dimensions, Interface Dimensions, Bus Bar Dimensions and Clearances and other Specified Dimensions	DWG	DWG	Report	Н	SW	-	
23	Tightness/Torque of Terminals and Degree of Protection	DWG/Spec	DWG/Spec	Report	Н	SW	-	
24	Checking that all Instruments, Control Switches, Interlocks and etc. are Correctly Rated and are Correctly Located, with Specified Labeling.	DWG/Spec	DWG/Spec	Report	н	SW	-	
25	Pressure Test	Procedure	Procedure	Report	Н	Н	1	
26	Leakage Test	Procedure	Procedure	Report	н	Н	-	
27	Stored Energy System Test	Procedure	Procedure	Report	Н	Н	-	
28	Main Circuit Power Frequency Voltage Dry Tension Test	Procedure	Procedure	Report	Н	Н	-	
29	Voltage on Control and Auxiliary Circuit Test	Procedure	Procedure	Report	Н	Н	-	

30	Main Circuit Resistance Test	Procedure	Procedure	Report	Н	Н	-			
31	Mechanical Operation Test	Procedure	Procedure	Report	Н	н	1			
32	Timing Test Procedure	Procedure	Procedure	Report	Н	н	ı			
33	Compressor Operation Test	Procedure	Procedure	Report	Н	Н	-			
			Final Inspection							
34	Final Visual & Dimensional Check	DWG	DWG	Report	Н	Н	-	-		
35	Surface Preparation and Painting	Procedure	Procedure	Report	Н	W	-	-		
36	Check of Final Book	Spec.	Spec.	DWG/ P.O	Н	R	-			
			Documentation							
37	Inspection Reports	Spec./DWG	Spec./DWG	Report	Н	R	-	-		
38	NCR	Spec./DWG	Spec./DWG	Report	Н	R	-	-		
39	Review Final Data Report	Spec./DWG	Spec./DWG	Report	Н	R	-	-		
	Pre-shipment Inspection									
40	Preservation and Packing	Spec.	Spec.	Report	Н	Н	-	-		
41	Marking	Spec.	Spec.	Report	Н	Н	-	-		
42	Loading Inspection	Spec.	Spec.	Report	Н	Н	-	-		

43	Shipping Document Control	Procedure	Spec.	Packing List	Н	Н	-	-	
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### Abbreviations:

H: Hold Point = Hold on the production till TPI Inspector performs inspection and supervise the required test

W: Witness Point = Manufacture shall notify client and TPI Inspector but there is no hold on the production; Client can waive this inspection based on his discretion and informs TPI Inspector accordingly.

R: Document Review = Review means Review document, which includes of material test certificates, WPS, PQR, NDT Procedures and etc.

A: Approval

SW: Spot Witness = for items with spot witness manufacture shall notify TPI inspector as fulfilling the monitoring; For example one random visit for whole UT tests or one or two visits for whole surface preparation works for painting.

MOM: Minute of Meeting

P.O: Purchase Order

for more information review following articles:

http://www.inspection-for-industry.com/third-party-inspection-for-gas-circuit-breaker.html http://www.inspection-for-industry.com/inspection-and-test-plan-for-gas-circuit-breaker.html