	Inspe	ction and	Test Plan f	or Contro	ol Pai	nel		
.				Verifying Document	Activity By			Remark
No.	Inspection and Test Plan	Reference Document	Acceptance Criteria		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	Ι	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	Α	-
6	NDE Personnel Certificates	ASME IX	ASME IX	Certificates	Н	R	-	-
7	Control Panel Insulation Resistance Test Procedure	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	Procedure	Н	R	А	
8	Control Panel Withstand Voltage Test Procedure	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	Procedure	Н	R	А	
9	Control Panel Mechanical Operational Test Procedure	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	IEC, NEC, NEMA, FDF, ISO ANSI, CI, IPCEA	Procedure	Н	R	А	
10	Painting Procedure	SSPC	SSPC	Procedure	Н	R	А	-
			Materials					

11	Raw Material Inspection	ASTM	ASTM	Original Material Certificates	н	Н	-	-	
12	Review of Certificates	ASTM	ASTM	Certificates	Н	Н	-	-	
13	Material Identification	ASTM	ASTM	Report	Н	Н	-		
	During Fabrication								
14	Assembly Inspection	DWG	DWG	Report	Н	SW	-		
15	Welding Inspection for Required Welding Components	WPS	WPS	Report	Н	SW	-		
16	Checking of Outline Dimensions, Interface Dimensions, Busbar Dimensions and Clearances and other Specified Dimensions	DWG	DWG	Report	Н	SW	-		
17	Tightness/Torque of Terminals and Degree of Protection	DWG/Spec	DWG/Spec	Report	Н	SW	-		

18	Inspection to Confirm that all Instruments, Compartments, Control Switches etc. are Correctly Rated and are Correctly Located, with Specified Labeling.	DWG/Spec	DWG/Spec	Report	н	SW	-		
19	Insulation Resistance Test	Procedure	Procedure	Report	Н	н	-		
20	Withstand Voltage Test (Dielectric Test)	Procedure	Procedure	Report	Н	Н	-		
21	Mechanical Operational Test	Procedure	Procedure	Report	Н	Н	-		
			Final Inspection						
22	Final Visual & Dimensional Check	DWG	DWG	Report	Н	Н	-	-	
23	Surface Preparation and Painting	Procedure	Procedure	Report	Н	W	-	-	
24	Check of Final Book	-	Spec.	DWG/ P.O	Н	R	-		
			Documentation						
25	Inspection Reports	Spec./DWG	Spec./DWG	Report	Н	R	-	-	
26	NCR	Spec./DWG	Spec./DWG	Report	Н	R	-	-	
27	Review Final Data Report	Spec./DWG	Spec./DWG	Report	Н	R	-	-	
	Pre-Shipment Inspection								
28	Preservation and Packing	Spec.	Spec.	Report	Н	Н	-	-	

29	Marking	Spec.	Spec.	Report	н	Н	1	-
30	Loading Inspection	Spec.	Spec.	Report	Н	Н	-	-
31	Shipping Document Control	Procedure	Spec.	Packing List	Н	Н	-	-

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-control-panel.html http://www.inspection-for-industry.com/inspection-and-test-plan-for-control-panel.html