



WEAR CHECK LIST RAPTION 150KW

Date:

Charge Point Information			
Model:		S/N:	
Alias of the unit:		Start Up Date:	
Installation Date:		Field technician:	
Wearcheck period:		Ticket N°:	
Client/Operator			
Address:			

Check in the file "Mandatory Personal Protective Equipment to avoid risk of accidental electrical injury" to make sure the commissioning staff has all the protective material and equipment.

Find at the end of the document a table with some clarifying comments, help and hints about some points from the checklist. Those points are indicated with an asterisc "*".

CHARGER UPSTREAM

Installation Electrical Components			
Nº	Description	Action	Status
1	Verification of the MCB*	VI	<input type="checkbox"/> OK <input type="checkbox"/> NOK
2	Verification of the RCD	VI	<input type="checkbox"/> OK <input type="checkbox"/> NOK
3	Grounding Resistance (i.e. Circutor TL5)	OM	<input type="checkbox"/> OK <input type="checkbox"/> NOK
Comments			

POWER CABINET

External General inspection			
Nº	Description	Action	Status
4	General Visual inspection	VI	<input type="checkbox"/> OK <input type="checkbox"/> NOK
5	Unit Under Cover	VI	<input type="checkbox"/> OK <input type="checkbox"/> NOK
6	Minimum front distance: 1200mm	OM	<input type="checkbox"/> OK <input type="checkbox"/> NOK
7	Minimum rear distance : 1200mm	OM	<input type="checkbox"/> OK <input type="checkbox"/> NOK
8	Minimum left distance: 800mm	OM	<input type="checkbox"/> OK <input type="checkbox"/> NOK
9	Minimum right distance: 800mm	OM	<input type="checkbox"/> OK <input type="checkbox"/> NOK
Comments			

Body and fastening			
Nº	Description	Action	Status
10	Exterior Paint	VI	<input type="checkbox"/> OK <input type="checkbox"/> NOK
11	Bolt Fastening and verification	CST	<input type="checkbox"/> OK <input type="checkbox"/> NOK
12	Accuracy of the level calibration	CST	<input type="checkbox"/> OK <input type="checkbox"/> NOK
13	Blowing & hoovering of the inside	VI	<input type="checkbox"/> OK <input type="checkbox"/> NOK
14	Ventilation holes	VI	<input type="checkbox"/> OK <input type="checkbox"/> NOK
Comments			

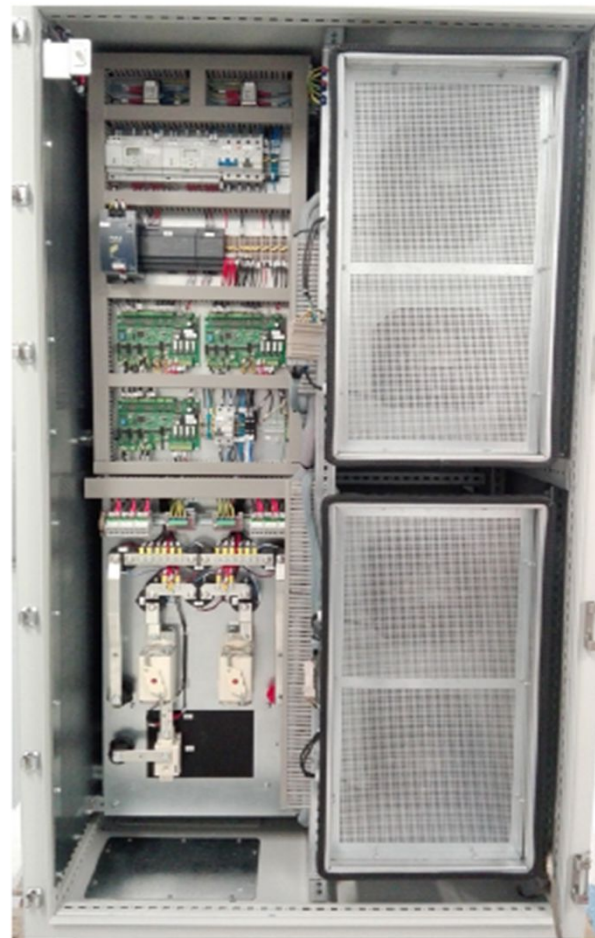
Installation Electrical Components - Front door			
Nº	Description	Action	Status
15	Main disconnecter (K05.1)	CST	<input type="checkbox"/> OK <input type="checkbox"/> NOK
16	Service Schuko MCB (Q05.3)	VM	<input type="checkbox"/> OK <input type="checkbox"/> NOK
17	Service Schuko E3	OT	<input type="checkbox"/> OK <input type="checkbox"/> NOK
18	Relays boards (J06.1/2, J07.1/2)	VI	<input type="checkbox"/> OK <input type="checkbox"/> NOK
19	MCCBs (Q06.1, Q07.1)*	VM	<input type="checkbox"/> OK <input type="checkbox"/> NOK
20	RCDs (T06,4, T07.4)*	VM + OT	<input type="checkbox"/> OK <input type="checkbox"/> NOK
21	Power modules (connectors, status, fans)	VI	<input type="checkbox"/> OK <input type="checkbox"/> NOK
22	Ventilation fans side's system	VI	<input type="checkbox"/> OK <input type="checkbox"/> NOK
23	Tamper system	OT	<input type="checkbox"/> OK <input type="checkbox"/> NOK
24	Heater	VI	<input type="checkbox"/> OK <input type="checkbox"/> NOK
25	Overvoltage kit (optionals) F17.1/2/3	VI-CST	<input type="checkbox"/> OK <input type="checkbox"/> NOK
26	Fuses L1, L2, L3 (250A)	CST	<input type="checkbox"/> OK <input type="checkbox"/> NOK
27	Tightening of the terminals	CST	<input type="checkbox"/> OK <input type="checkbox"/> NOK
	Main disconnecter	VM	
28	Input Voltage check in L1 - N		<input type="checkbox"/> OK <input type="checkbox"/> NOK
	Input Voltage check in L2 - N		<input type="checkbox"/> OK <input type="checkbox"/> NOK
	Input Voltage check in L3 - N		<input type="checkbox"/> OK <input type="checkbox"/> NOK
	Input Voltage check between Neutral and Ground		<input type="checkbox"/> OK <input type="checkbox"/> NOK
Comments			

Installation Electrical Components - Rear Door Visual Inspection			
Nº	Description	Action	Status
29	Backflow Diode*	CST	<input type="checkbox"/> OK <input type="checkbox"/> NOK
30	Ceramic Fuses (F10.1/2)	CST	<input type="checkbox"/> OK <input type="checkbox"/> NOK
31	Filters boards (J17.4/5)	CST	<input type="checkbox"/> OK <input type="checkbox"/> NOK
32	Fans	OT	<input type="checkbox"/> OK <input type="checkbox"/> NOK
33	RCD (Q12.1, Q05.1/2)	VM + OT	<input type="checkbox"/> OK <input type="checkbox"/> NOK
34	Supervisor Board (A14.1, A15.1, A16.1)	VI	<input type="checkbox"/> OK <input type="checkbox"/> NOK
35	UPS (J11.02)*	OT	<input type="checkbox"/> OK <input type="checkbox"/> NOK

36	Power supply 12V (J11.3)	VM	<input type="checkbox"/> IN	<input type="checkbox"/> OUT
37	Power supply 24V (J11.1)	VM	<input type="checkbox"/> IN	<input type="checkbox"/> OUT
38	Multiconnectors	VI	<input type="checkbox"/> OK	<input type="checkbox"/> NOK
39	Meters (P06.1, P07.1)	VM	<input type="checkbox"/> OK	<input type="checkbox"/> NOK
40	Tamper system	OT	<input type="checkbox"/> OK	<input type="checkbox"/> NOK
41	Tightening of the terminals	CST	<input type="checkbox"/> OK	<input type="checkbox"/> NOK
Comments				



FRONT DOOR



REAR DOOR

Actions:

Visual Inspection	VI
Voltage Measurement	VM
Operation Test	OT
Other measurement	OM
Check with specific tool	CST
Check with laptop	CWL

DISPENSER

External General inspection			
Nº	Description	Action	Status
42	General Visual inspection	VI	<input type="checkbox"/> OK <input type="checkbox"/> NOK
43	Unit Under Cover	VI	<input type="checkbox"/> OK <input type="checkbox"/> NOK
44	Minimum front distance: 500mm	OM	<input type="checkbox"/> OK <input type="checkbox"/> NOK
45	Minimum rear distance: 200mm	OM	<input type="checkbox"/> OK <input type="checkbox"/> NOK
46	Minimum left distance: 200mm	OM	<input type="checkbox"/> OK <input type="checkbox"/> NOK
47	Minimum right distance: 200mm	OM	<input type="checkbox"/> OK <input type="checkbox"/> NOK
Comments			

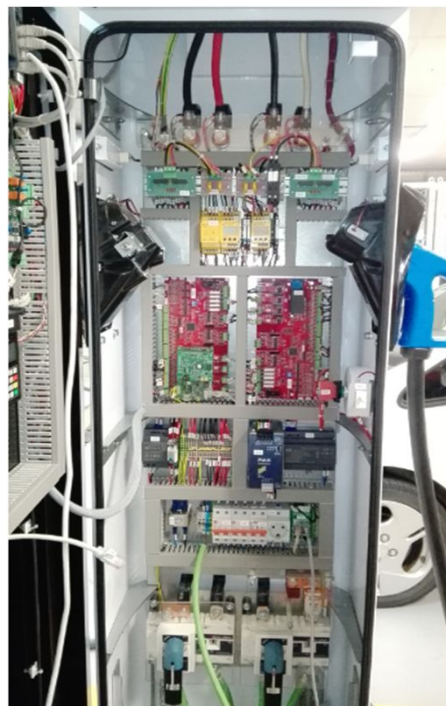
Body and fastening			
Nº	Description	Action	Status
48	Exterior Paint	VI	<input type="checkbox"/> OK <input type="checkbox"/> NOK
49	Bolt Fastening and verification	CST	<input type="checkbox"/> OK <input type="checkbox"/> NOK
50	Accuracy of the level calibration	CST	<input type="checkbox"/> OK <input type="checkbox"/> NOK
51	Roof Cover verification	CST	<input type="checkbox"/> OK <input type="checkbox"/> NOK
52	Blowing & hoovering of the inside	VI	<input type="checkbox"/> OK <input type="checkbox"/> NOK
Comments			

Verification External Components			
Nº	Description	Action	Status
53	Lockable Handle	OT	<input type="checkbox"/> OK <input type="checkbox"/> NOK
54	CCS Holder housing (External and Internal Inspe	VI	<input type="checkbox"/> OK <input type="checkbox"/> NOK
55	CCS Cable Gland	VI	<input type="checkbox"/> OK <input type="checkbox"/> NOK
56	CCS Connector (External and Internal Inspection)	VI	<input type="checkbox"/> OK <input type="checkbox"/> NOK
57	CHAdEMO Holder housing (External and Internal	VI	<input type="checkbox"/> OK <input type="checkbox"/> NOK
58	CHAdEMO Cable Gland	VI	<input type="checkbox"/> OK <input type="checkbox"/> NOK
59	CHAdEMO Connector (External and Internal Insp	VI	<input type="checkbox"/> OK <input type="checkbox"/> NOK
60	Screen	VI	<input type="checkbox"/> OK <input type="checkbox"/> NOK
61	LED Beacons	VI	<input type="checkbox"/> OK <input type="checkbox"/> NOK
62	Courtesy Lights	VI	<input type="checkbox"/> OK <input type="checkbox"/> NOK
Comments			

Verification Internal Components			
Nº	Description	Action	Status
63	Lockable Handle Internal System (Main Screws)	CST	<input type="checkbox"/> OK <input type="checkbox"/> NOK
64	CCS Holder Internal Lock System (Coil/Cilinder)	OT	<input type="checkbox"/> OK <input type="checkbox"/> NOK
65	CHAdEMO Holder Internal Lock System	OT	<input type="checkbox"/> OK <input type="checkbox"/> NOK
66	Screen Connectors	CST	<input type="checkbox"/> OK <input type="checkbox"/> NOK
67	LED Beacons	VI	<input type="checkbox"/> OK <input type="checkbox"/> NOK
68	Check Condesation on Components	VI	<input type="checkbox"/> OK <input type="checkbox"/> NOK
69	Check Water Inlets inside.	VI	<input type="checkbox"/> OK <input type="checkbox"/> NOK
Comments			

Verification Electrical Components			
Nº	Description	Action	Status
70	Main disconnecter CCS (Q1-10)*	OT	<input type="checkbox"/> OK <input type="checkbox"/> NOK
71	Main disconnecter CHAdEMO (Q1-15)*	OT	<input type="checkbox"/> OK <input type="checkbox"/> NOK
72	Earth Cable	VI	<input type="checkbox"/> OK <input type="checkbox"/> NOK
73	CHAdEMO Fuse (F1-15)	CST	<input type="checkbox"/> OK <input type="checkbox"/> NOK
74	MCB (Q2.05)	VM	<input type="checkbox"/> OK <input type="checkbox"/> NOK
75	MCB (Q2.06)	VM	<input type="checkbox"/> OK <input type="checkbox"/> NOK
76	MCB Schuko (Q1.06)	VM	<input type="checkbox"/> OK <input type="checkbox"/> NOK
77	Service Schuko E1.06	OT	<input type="checkbox"/> OK <input type="checkbox"/> NOK
78	Distribution Board (X2-08)	VI	<input type="checkbox"/> OK <input type="checkbox"/> NOK
79	Power supply 12V (G2-05)	VM	<input type="checkbox"/> IN <input type="checkbox"/> OUT
80	UPS (G3-05)*	OT	<input type="checkbox"/> OK <input type="checkbox"/> NOK
81	Power supply 24V (G1-05)	VM	<input type="checkbox"/> IN <input type="checkbox"/> OUT
82	Modo4/CAN board CCS (A1-13)	VI	<input type="checkbox"/> OK <input type="checkbox"/> NOK
83	Modo4/CAN board CHAdEMO (A1-17)	VI	<input type="checkbox"/> OK <input type="checkbox"/> NOK
84	BENDER CCS (B2-11)*	OT	<input type="checkbox"/> OK <input type="checkbox"/> NOK
85	BENDER CHAdEMO (B1-16)*	OT	<input type="checkbox"/> OK <input type="checkbox"/> NOK
86	Fuse (F1-16)	CST	<input type="checkbox"/> OK <input type="checkbox"/> NOK
87	Fuse (F1-17)	CST	<input type="checkbox"/> OK <input type="checkbox"/> NOK
88	Heater (M1-06)	OT	<input type="checkbox"/> OK <input type="checkbox"/> NOK
89	Multiconnectors	VI	<input type="checkbox"/> OK <input type="checkbox"/> NOK
90	Switch (X1.07)	VI	<input type="checkbox"/> OK <input type="checkbox"/> NOK
91	Tamper system	OT	<input type="checkbox"/> OK <input type="checkbox"/> NOK
92	Emergency Stop Button Actuation	OT	<input type="checkbox"/> OK <input type="checkbox"/> NOK
93	Tightening of the terminals	CST	<input type="checkbox"/> OK <input type="checkbox"/> NOK
Comments			

Configuration and Adjustments			
Nº	Description	Action	Status
94	Configuration of the network analyzers	VI	<input type="checkbox"/> OK <input type="checkbox"/> NOK
95	Adjustment of the isolation detectors	VI	<input type="checkbox"/> OK <input type="checkbox"/> NOK
96	Adjustment of the sensitivity of the RCD	VI	<input type="checkbox"/> OK <input type="checkbox"/> NOK
97	Setup of the date/time and language	CWL	<input type="checkbox"/> OK <input type="checkbox"/> NOK
98	Adjustment of the output power according to the maximum power supported by the supply connection (Indicate value)	CWL	CCS2 / CHA
99	Configuration of the local network and 3G	CWL	<input type="checkbox"/> OK <input type="checkbox"/> NOK
100	Verification of the firmware and application	CWL	<input type="checkbox"/> OK <input type="checkbox"/> NOK
101	Verification of the communication between the internal devices	CWL	<input type="checkbox"/> OK <input type="checkbox"/> NOK
102	Setup of the OCPP and basic tests of functionality	Test	
		Comm. Backoffice	<input type="checkbox"/> OK <input type="checkbox"/> NOK
		Start/Stop RFID	<input type="checkbox"/> OK <input type="checkbox"/> NOK
		Start/Stop remote	<input type="checkbox"/> OK <input type="checkbox"/> NOK
		White list	<input type="checkbox"/> OK <input type="checkbox"/> NOK
Comments			



Actions:

Visual Inspection	VI
Voltage Measurement	VM
Operation Test	OT
Other measurement	OM
Check with specific tool	CST
Check with laptop	CWL

Functionality Test					
Nº	Description	Status			
		CCS		CHA	
103	Stand by	<input type="checkbox"/> OK	<input type="checkbox"/> NOK	<input type="checkbox"/> OK	<input type="checkbox"/> NOK
104	Charging	<input type="checkbox"/> OK	<input type="checkbox"/> NOK	<input type="checkbox"/> OK	<input type="checkbox"/> NOK
105	Emergency Stop	<input type="checkbox"/> OK	<input type="checkbox"/> NOK	<input type="checkbox"/> OK	<input type="checkbox"/> NOK
106	Earth leakage verification	<input type="checkbox"/> OK	<input type="checkbox"/> NOK	<input type="checkbox"/> OK	<input type="checkbox"/> NOK
107	Complete Charge (~30')	<input type="checkbox"/> OK	<input type="checkbox"/> NOK	<input type="checkbox"/> OK	<input type="checkbox"/> NOK
108	Ventilation activation	<input type="checkbox"/> OK	<input type="checkbox"/> NOK	<input type="checkbox"/> OK	<input type="checkbox"/> NOK
109	Screen information	<input type="checkbox"/> OK	<input type="checkbox"/> NOK	<input type="checkbox"/> OK	<input type="checkbox"/> NOK
110	Activation / Deactivation of Power Modules	<input type="checkbox"/> OK	<input type="checkbox"/> NOK	<input type="checkbox"/> OK	<input type="checkbox"/> NOK
Comments					

Client's Comments		
Sign and Acceptance		
Location:		
Circontrol Staff		Customer / Operator of CP

Help and Tips	
Nº	Description
1	Optional: Value (A) and selectivity (S) of the main MCB
19	Factory references from MCCB: 0,8 Ir & 10 li
20	Hold "Test" botton at least 4 seconds
29	Diode value ~0,360
35	Minimum hold-up time 0.2s at 20A
70	Check the polarity of CCS cables from Power Cabinet
71	Check the polarity of CHA cables from Power Cabinet
80	Minimum hold-up time 0.2s at 20A
84	Press test button for a couple of seconds
85	Press test button for a couple of seconds
94	Configuration of the network analyzers