Isrc & LEBT Acceptance Tests in Pulsed Mode

2017-09-07 12:39

Test	Description	Result
	Setup HV power supply:	
1	Setup HV power supply: Check HV power supply is off None	Success
2	Setup HV power supply: Set HV power supply current limit to maximum None	Success
3	Setup HV power supply: Set HV power supply voltage to 0V None	Success
4	Setup HV power supply: Set to ramp mode None	Success
5	Setup HV power supply: Set ramp to 1000V/s None	Success
	Setup repeller 01 power supply:	
6	Setup repeller 01 power supply: Check Repeller 01 Power Supply is Off None	Success
7	Setup repeller 01 power supply: Set Repeller 01 Power Supply voltage to -3500V None	Success
8	Setup repeller 01 power supply: Set Repeller 01 Power Supply current to -2mA None	Success
	Setup repeller 02 power supply:	
9	Setup repeller 02 power supply: Check Repeller 02 Power Supply is Off None	Success

10	Setup repeller 02 power supply: Set Repeller 02 Power Supply voltage to -700V None	Success
11	Setup repeller 02 power supply: Set Repeller 02 Power Supply current to -2mA None	Success
	Setup coil 01 power supply:	
12	Setup coil 01 power supply: Check Coil 01 Power Supply is Off None	Success
13	Setup coil 01 power supply: Set Coil 01 Power Supply voltage to 9,5V None	Success
14	Setup coil 01 power supply: Set Coil 01 Power Supply current to 108,8A None	Success
15	Setup coil 01 power supply: Check Coil 01 Power Supply is On None	Success
	Setup coil 02 power supply:	
16	Setup coil 02 power supply: Check Coil 02 Power Supply is Off None	Success
17	Setup coil 02 power supply: Set Coil 02 Power Supply voltage to 9,5V None	Success
18	Setup coil 02 power supply: Set Coil 02 Power Supply current to 68,9A None	Success
19	Setup coil 02 power supply: Check Coil 02 Power Supply is On None	Success
	Setup coil 03 power supply:	
20	Setup coil 03 power supply: Check Coil 03 Power Supply is Off None	Success
21	Setup coil 03 power supply: Set Coil 03 Power Supply voltage to 9,5V None	Success
22	Setup coil 03 power supply: Set Coil 03 Power Supply current to 228,4A None	Success

	Setup coil 03 power supply: Check Coil 03 Power Supply is On	
23	None	Success
	s interlock:	
	Unlock magnetron's interlock: Unlock interlock (push)	
24	None	Success
	Unlock magnetron's interlock: Unlock interlock (release)	
25	None	Success
	Magnetron status:	
	Magnetron status: Magnetron MW Power Status	
26	None	Success
	Setup magnetron:	
	Setup magnetron: Magnetron is Off	
27	None	Success
	Setup magnetron: Reset magnetron (push)	
28	None	Success
	Setup magnetron: Reset magnetron (release)	
29	None	Success
	Setup magnetron: Set Magnetron pulse low level to 0	
30	None	Success
	Setup magnetron: Set Magnetron pulse high level to 1015	
31	None	Success
	Setup magnetron: Set Magnetron pulse frequency to 14Hz	
32	None	Success
	Setup magnetron: Set Magnetron pulse width to 6000us	
33	None	Success
	Setup ATU:	
	Setup ATU: ATU X Position is manual	
34	None	Success
	Setup ATU: ATU Y Position is manual	
35	None	Success

36	Setup ATU: ATU X movement enabled None	Success
37	Setup ATU: ATU Y movement enabled None	Success
38	Setup ATU: ATU X Position is 5500 None	Success
39	Setup ATU: ATU Y Position is 5500 None	Success
40	Setup ATU: ATU X Position is 5000 None	Success
41	Setup ATU: ATU Y Position is 5000 None	Success
42	Setup ATU: ATU X Position is auto None	Success
43	Setup ATU: ATU Y Position is auto None	Success
	Check chopper interlock status:	
44	Check chopper interlock status: Chopper Chopping Voltage Alarm status None	Success
45	Check chopper interlock status: Chopper Cooling Water Flow Status status None	Success
46	Check chopper interlock status: Chopper Power System Status status None	Success
	Check repeller interlock status:	
47	Check repeller interlock status: Electrodes Cooling Water Flow Status None	Success
	Global interlock status:	
48	Global interlock status: Source Status For Radioprotection None	Success
	Coils cooling interlock status:	

	Coils cooling interlock status: Coil 1 Cooling Water Flow Status	
49	None	Success
	Coils cooling interlock status: Coil 1 Temperature Status	
50	None	Success
	Coils cooling interlock status: Coil 2 Cooling Water Flow Status	
51	None	Success
	Coils cooling interlock status: Coil 2 Temperature Status	
52	None	Success
	Coils cooling interlock status: Coil 3 Cooling Water Flow Status	
53	None	Success
	Coils cooling interlock status: Coil 3 Temperature Status	
54	None	Success
	High voltage PS interlock status:	
	High voltage PS interlock status: Access Status	
55	None	Success
	Physical access interlock status:	
	Physical access interlock status: Access Status	
56	None	Success
	Physical access interlock status: Radioprotection Sensor Status	
57	None	Success
	Physical access interlock status: Neutral To Ground Resistor Switch Stat	
58	None	Success
	Matching transfer cooling interlock status:	
	Matching transfer cooling interlock status: Matching Transformer Cooling Water Flow	
59	None	Success
	Plasma chamber interlock status:	
	Plasma chamber interlock status: Plasma Chamber Cooling Water Flow Statu	
60	None	Success
	Coils power interlock status:	

61	Coils power interlock status: Coil 1 Power Supply Status None	Success
62	Coils power interlock status: Coil 2 Power Supply Status None	Success
63	Coils power interlock status: Coil 3 Power Supply Status None	Success
	Beam stop cooling interlock status:	
64	Beam stop cooling interlock status: Beam Stop Cooling Water Flow Status None	Success
	Solenoid and klixon interlock status:	
65	Solenoid and klixon interlock status: Solenoid 1 Cooling Water Flow Status None	Success
66	Solenoid and klixon interlock status: Klixon 1 power Stat None	Success
67	Solenoid and klixon interlock status: Solenoid 2 Cooling Water Flow Status None	Success
68	Solenoid and klixon interlock status: Klixon 2 power Stat None	Success
	Collimator interlock status:	
69	Collimator interlock status: Collimator Cooling Water Flow Status None	Success
	EMU interlock status:	
70	EMU interlock status: EMU 1 Cooling Water Flow Status None	Success
71	EMU interlock status: EMU 2 Cooling Water Flow Status None	Success
	Faraday cup interlock status:	
72	Faraday cup interlock status: Faraday Cup Cool ing Water Flow Status None	Success

	Iris interlock status:	
73	Iris interlock status: IRIS Cooling Water Flow Status None	Success
	Vacuum interlock status:	
74	Vacuum interlock status: Vacuum Status None	Success
	colision:	
75	Check procedure anti-colision: Put FC outside None	Success
76	Check procedure anti-colision: check FC outside None	Success
77	Check procedure anti-colision: Check status of the PLC side None	Success
78	Check procedure anti-colision: Check EMU1 Outside None	Success
79	Check procedure anti-colision: Check EMU2 Outside None	Success
80	Check procedure anti-colision: Put FC inside None	Success
81	Check procedure anti-colision: Check if the EMUs can't move None	Success
82	Check procedure anti-colision: Put FC outside None	Success
83	Check procedure anti-colision: Check if the EMUs can move None	Success
	Setup Magnetron:	
84	Setup Magnetron: Set to external timing None	Success
	Setup timing system:	

85	Setup timing system: Set frequency to 14Hz None	Success
	Setup EVR system:	
86	Setup EVR system: Set pulse width None	Success
	HV PS configuration:	
87	Phase A - HV PS configuration: Set High Voltage Power Supply to 75000V None	Success
88	Phase A - HV PS configuration: Put the HV Power Supply On None	Success
	Vacuum configuration:	
89	Phase B - Vacuum configuration: Set MFC to 2.8sccm None	Success
90	Phase B - Vacuum configuration: Flow is around 2.8sccm None	Success
	Magnetic system configuration:	
91	Phase C - Magnetic system configuration: Put Coil 01 Power Supply On None	Success
92	Phase C - Magnetic system configuration: Put Coil 02 Power Supply On None	Success
93	Phase C - Magnetic system configuration: Put Coil 03 Power Supply On None	Success
	Repellers configuration:	
94	Phase D - Repellers configuration: Put the Repeller 01 Power Supply On None	Success
95	Phase D - Repellers configuration: Put the Repeller 02 Power Supply On None	Success
	ATU configuration:	

96	Phase E - ATU configuration: X axis is activated None	Success
97	Phase E - ATU configuration: Y axis is activated None	Success
	Magnetron configuration:	
98	Phase F - Magnetron configuration: Set magnetron forwarded power to 0W None	Success
99	Phase F - Magnetron configuration: Set magnetron reflected power to 700W None	Success
100	Phase F - Magnetron configuration: The magnetron filament is ready None	Success
101	Phase F - Magnetron configuration: Magnetron is On None	Success
	Configure the FC:	
102	Configure the FC: Set display interval T0 None	Success
103	Configure the FC: Set display interval T1 None	Success
104	Configure the FC: Set measure interval T2 None	Success
105	Configure the FC: Set measure interval T3 None	Success
	Configure ACCTs:	
106	Configure ACCTs: Set measure interval T2 None	Success
107	Configure ACCTs: Set measure interval T3 None	Success
	Magnetron status:	
108	Magnetron status: Magnetron MW Power Status and wait 3 minutes None	Success

	Check chopper interlock status:	
109	Check chopper interlock status: Chopper Chopping Voltage Alarm status None	Success
110	Check chopper interlock status: Chopper Cooling Water Flow Status status None	Success
111	Check chopper interlock status: Chopper Power System Status status None	Success
	Check repeller interlock status:	
112	Check repeller interlock status: Electrodes Cooling Water Flow Status None	Success
	Global interlock status:	
113	Global interlock status: Source Status For Radioprotection None	Success
	Coils cooling interlock status:	
114	Coils cooling interlock status: Coil 1 Cooling Water Flow Status None	Success
115	Coils cooling interlock status: Coil 1 Temperature Status None	Success
116	Coils cooling interlock status: Coil 2 Cooling Water Flow Status None	Success
117	Coils cooling interlock status: Coil 2 Temperature Status None	Success
118	Coils cooling interlock status: Coil 3 Cooling Water Flow Status None	Success
119	Coils cooling interlock status: Coil 3 Temperature Status None	Success
	High voltage PS interlock status:	
120	High voltage PS interlock status: Access Status None	Success

	Physical access interlock status:	
	Physical access interlock status: Access Status	
121	None	Success
	Physical access interlock status: Radioprotection Sensor Status	
122	None	Success
	Physical access interlock status: Neutral To Ground Resistor Switch Stat	
123	None	Success
	Matching transfer cooling interlock status:	
	Matching transfer cooling interlock status: Matching Transformer Cooling Water Flow	
124	None	Success
	Plasma chamber interlock status:	
	Plasma chamber interlock status: Plasma Chamber Cooling Water Flow Statu	
125	None	Success
	Coils power interlock status:	
	Coils power interlock status: Coil 1 Power Supply Status	
126	None	Success
	Coils power interlock status: Coil 2 Power Supply Status	
127	None	Success
	Coils power interlock status: Coil 3 Power Supply Status	
128	None	Success
	Beam stop cooling interlock status:	
	Beam stop cooling interlock status: Beam Stop Cooling Water Flow Status	
129	None	Success
	Solenoid and klixon interlock status:	
	Solenoid and klixon interlock status: Solenoid 1 Cooling Water Flow Status	
130	None	Success
	Solenoid and klixon interlock status: Klixon 1 power Stat	
131	None	Success

	Solenoid and klixon interlock status: Solenoid 2 Cooling Water Flow Status	
132	None	Success
	Solenoid and klixon interlock status: Klixon 2 power Stat	
133	None	Success
	Collimator interlock status:	
	Collimator interlock status: Collimator Cooling Water Flow Status	
134	None	Success
	EMU interlock status:	
	EMU interlock status: EMU 1 Cooling Water Flow Status	
135	None	Success
	EMU interlock status: EMU 2 Cooling Water Flow Status	
136	None	Success
	Faraday cup interlock status:	
	Faraday cup interlock status: Faraday Cup Cool ing Water Flow Status	
137	None	Success
	Iris interlock status:	
	Iris interlock status: IRIS Cooling Water Flow Status	
138	None	Success
	Vacuum interlock status:	
	Vacuum interlock status: Vacuum Status	
139	None	Success
	Setup the injection of N:	
	Setup the injection of N: Set the injection of N	
140	None	Success
	Setup the injection of N: Check the flow of N	
141	None	Success
	Setup the injection of H2:	
	Setup the injection of H2: Activate the injection of H2	
142	None	Success

143	Setup the injection of H2: Set the injection of H2 None	Success
144	Setup the injection of H2: get the injection of H2 Traceback (most recent call last): File "/home/catane/miniconda2/envs/wetest/lib/python2.7/site-packages/wetest-0.4.3-py2.7.egg/wetest/testing/generator.py", line 162, in test self.assertGreaterEqual(ref_value, getter.get()) AssertionError: 1.3 not greater than or equal to 1.311	Failure
	Setup SOL1 power supply:	
145	Setup SOL1 power supply: Set SOL1 Power Supply voltage to 20V None	Success
146	Setup SOL1 power supply: Set SOL1 Power Supply current to 265A None	Success
147	Setup SOL1 power supply: Check the status of the Power Supply None	Success
148	Setup SOL1 power supply: Set SOL01 Power Supply On None	Success
	Setup SOL2 power supply:	
149	Setup SOL2 power supply: Set SOL2 Power Supply voltage to -20V None	Success
150	Setup SOL2 power supply: Set SOL2 Power Supply current to 265A None	Success
151	Setup SOL2 power supply: Check the status of the Power Supply None	Success
152	Setup SOL2 power supply: Set SOL2 Power Supply On None	Success
	Test steerer H1 power supply:	
153	Test steerer H1 power supply: Set STEERER H1 Power Supply polarity to - None	Success
154	Test steerer H1 power supply: Set STEERER H1 Power Supply voltage to 12,5V None	Success

155	Test steerer H1 power supply: set STEERER H1 Power Supply to On None	Success
156	Test steerer H1 power supply: Set STEERER H1 Power Supply current to 0A None	Success
157	Test steerer H1 power supply: Set STEERER H1Power Supply current to 2A None	Success
158	Test steerer H1 power supply: Check Reverse command desactivated None	Success
159	Test steerer H1 power supply: Set STEERER H1Power Supply current to 0A None	Success
160	Test steerer H1 power supply: Set STEERER H1 Power Supply polarity to + None	Success
161	Test steerer H1 power supply: Set STEERER H1Power Supply current to 2A None	Success
162	Test steerer H1 power supply: Check Reverse command desactivated None	Success
163	Test steerer H1 power supply: Set STEERER H1Power Supply current to 0A None	Success
	Test steerer V1 power supply:	
164	Test steerer V1 power supply: Set STEERER V1 Power Supply polarity to - None	Success
165	Test steerer V1 power supply: Set STEERER V1 Power Supply voltage to 12.5V None	Success
166	Test steerer V1 power supply: set STEERER V1 Power Supply to On None	Success
167	Test steerer V1 power supply: Set STEERER V1 Power Supply current to 0A None	Success

168	Test steerer V1 power supply: Set STEERER H1Power Supply current to 2A None	Success
169	Test steerer V1 power supply: Check Reverse command desactivated None	Success
170	Test steerer V1 power supply: Set STEERER V1 Power Supply current to 0A None	Success
171	Test steerer V1 power supply: Set STEERER V1 Power Supply polarity to + None	Success
172	Test steerer V1 power supply: Set STEERER V1Power Supply current to 2A None	Success
173	Test steerer V1 power supply: Check Reverse command desactivated None	Success
174	Test steerer V1 power supply: Set STEERER V1 Power Supply current to 0A None	Success
	Test steerer H2 power supply:	
175	Test steerer H2 power supply: Set STEERER H2 Power Supply polarity to - None	Success
176	Test steerer H2 power supply: Set STEERER H2 Power Supply voltage to 12.5V None	Success
177	Test steerer H2 power supply: set STEERER H2 Power Supply to On None	Success
178	Test steerer H2 power supply: Set STEERER H2 Power Supply current to 0A None	Success
179	Test steerer H2 power supply: Set STEERER H2 Power Supply current to 2A None	Success
180	Test steerer H2 power supply: Check Reverse command desactivated None	Success

181	Test steerer H2 power supply: Set STEERER H2 Power Supply current to 0A None	Success
182	Test steerer H2 power supply: Set STEERER H2 Power Supply polarity to + None	Success
183	Test steerer H2 power supply: Set STEERER H2 Power Supply current to 2A None	Success
184	Test steerer H2 power supply: Check Reverse command desactivated None	Success
185	Test steerer H2 power supply: Set STEERER H2 Power Supply current to 0A None	Success
	Test steerer V2 power supply:	
186	Test steerer V2 power supply: Set STEERER V2 Power Supply polarity to - None	Success
187	Test steerer V2 power supply: Set STEERER V2 Power Supply voltage to 12.5V None	Success
188	Test steerer V2 power supply: set STEERER V2 Power Supply to On None	Success
189	Test steerer V2 power supply: Set STEERER V2 Power Supply current to 0A None	Success
190	Test steerer V2 power supply: Set STEERER V2 Power Supply current to 2A None	Success
191	Test steerer V2 power supply: Check Reverse command desactivated None	Success
192	Test steerer V2 power supply: Set STEERER V2 Power Supply current to 0A None	Success
193	Test steerer V2 power supply: Set STEERER V2 Power Supply polarity to + None	Success

194	Test steerer V2 power supply: Set STEERER V2 Power Supply current to 2A None	Success
195	Test steerer V2 power supply: Check Reverse command desactivated None	Success
196	Test steerer V2 power supply: Set STEERER V2 Power Supply current to 0A None	Success
	Setup the chopper:	
197	Setup the chopper: unlock interlocks None	Success
198	Setup the chopper: unlock interlocks None	Success
199	Setup the chopper: Set the width of the pulse to 3ms None	Success
200	Setup the chopper: Set the delay of the pulse to 1ms None	Success
201	Setup the chopper: Set Power Supply to On None	Success
202	Setup the chopper: Set Volt of Power Supply to 3kV Traceback (most recent call last): File "/home/catane/miniconda2/envs/wetest/lib/python2.7/site-packages/wetest-0.4.3-py2.7.egg/wetest/testing/generator.py", line 166, in test self.assertLessEqual(ref_value, getter.get()) AssertionError: 2.7 not less than or equal to 0.0030518509475997192	Failure
203	Setup the chopper: Set the Chopper to ON None	Success
	Check chopper interlock status:	
204	Check chopper interlock status: Chopper Chopping Voltage Alarm status None	Success
205	Check chopper interlock status: Chopper Cooling Water Flow Status status None	Success
206	Check chopper interlock status: Chopper Power System Status status None	Success

	Check repeller interlock status:	
207	Check repeller interlock status: Electrodes Cooling Water Flow Status None	Success
	Global interlock status:	
208	Global interlock status: Source Status For Radioprotection None	Success
	Coils cooling interlock status:	
209	Coils cooling interlock status: Coil 1 Cooling Water Flow Status None	Success
210	Coils cooling interlock status: Coil 1 Temperature Status None	Success
211	Coils cooling interlock status: Coil 2 Cooling Water Flow Status None	Success
212	Coils cooling interlock status: Coil 2 Temperature Status None	Success
213	Coils cooling interlock status: Coil 3 Cooling Water Flow Status None	Success
214	Coils cooling interlock status: Coil 3 Temperature Status None	Success
	High voltage PS interlock status:	
215	High voltage PS interlock status: Access Status None	Success
	Physical access interlock status:	
216	Physical access interlock status: Access Status None	Success
217	Physical access interlock status: Radioprotection Sensor Status None	Success
218	Physical access interlock status: Neutral To Ground Resistor Switch Stat None	Success

	Matching transfer cooling interlock status:	
	Matching transfer cooling interlock status: Matching Transformer Cooling Water Flow	
219	None	Success
	Plasma chamber interlock status:	
	Plasma chamber interlock status: Plasma Chamber Cooling Water Flow Statu	
220	None	Success
	Coils power interlock status:	
	Coils power interlock status: Coil 1 Power Supply Status	
221	None	Success
	Coils power interlock status: Coil 2 Power Supply Status	
222	None	Success
	Coils power interlock status: Coil 3 Power Supply Status	
223	None	Success
	Beam stop cooling interlock status:	
	Beam stop cooling interlock status: Beam Stop Cooling Water Flow Status	
224	None	Success
	Solenoid and klixon interlock status:	
	Solenoid and klixon interlock status: Solenoid 1 Cooling Water Flow Status	
225	None	Success
	Solenoid and klixon interlock status: Klixon 1 power Stat	
226	None	Success
	Solenoid and klixon interlock status: Solenoid 2 Cooling Water Flow Status	
227	None	Success
	Solenoid and klixon interlock status: Klixon 2 power Stat	
228	None	Success
	Collimator interlock status:	
	Collimator interlock status: Collimator Cooling Water Flow Status	
229	None	Success

	EMU interlock status:	
230	EMU interlock status: EMU 1 Cooling Water Flow Status None	Success
231	EMU interlock status: EMU 2 Cooling Water Flow Status None	Success
	Faraday cup interlock status:	
232	Faraday cup interlock status: Faraday Cup Cool ing Water Flow Status None	Success
	Iris interlock status:	
233	Iris interlock status: IRIS Cooling Water Flow Status None	Success
	Vacuum interlock status:	
234	Vacuum interlock status: Vacuum Status None	Success