



EUROPEAN  
SPALLATION  
SOURCE



## Source Acceptance Tests in Pulsed Mode

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Test	Description	Result
<b>Setup HV power supply:</b>		
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
<b>Setup repeller 01 power supply:</b>		
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
<b>Setup repeller 02 power supply:</b>		
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
<b>Setup coil 01 power supply:</b>		

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
<b>Setup coil 02 power supply:</b>		
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
<b>Setup coil 03 power supply:</b>		
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
23	Setup coil 03 power supply: Check Coil 03 Power Supply is On None	Success
<b>s interlock:</b>		
24	Unlock magnetron's interlock: Unlock interlock (push) None	Success
25	Unlock magnetron's interlock: Unlock interlock (release) None	Success
<b>Magnetron status:</b>		
26	Magnetron status: Magnetron MW Power Status None	Success
<b>Setup magnetron:</b>		
27	Setup magnetron: Magnetron is Off None	Success
28	Setup magnetron: Reset magnetron (push) None	Success
29	Setup magnetron: Reset magnetron (release) None	Success

30	Setup magnetron: Set Magnetron pulse low level to 0 None	Success
31	Setup magnetron: Set Magnetron pulse high level to 1015 None	Success
32	Setup magnetron: Set Magnetron pulse frequency to 14Hz None	Success
33	Setup magnetron: Set Magnetron pulse width to 6000us None	Success
<b>Setup ATU:</b>		
34	Setup ATU: ATU X Position is manual None	Success
35	Setup ATU: ATU Y Position is manual 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
<b>Check chopper interlock status:</b>		
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 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 158, in test self.assertEqual(test_data.get_value, getter.get()) AssertionError: 1 != 0	Failure
<b>Check repeller interlock status:</b>		
47	Check repeller interlock status: Electrodes Cooling Water Flow Status None	Success

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

<b>Beam stop cooling interlock status:</b>		
64	Beam stop cooling interlock status: Beam Stop Cooling Water Flow Status None	Success
<b>Solenoid and klixon interlock status:</b>		
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
<b>Collimator interlock status:</b>		
69	Collimator interlock status: Collimator Cooling Water Flow Status None	Success
<b>EMU interlock status:</b>		
70	EMU interlock status: EMU 1 Cooling Water Flow Status None	Success
71	EMU interlock status: EMU 2 Cooling Water Flow Status None	Success
<b>Faraday cup interlock status:</b>		
72	Faraday cup interlock status: Faraday Cup Cooling Water Flow Status None	Success
<b>Iris interlock status:</b>		
73	Iris interlock status: IRIS Cooling Water Flow Status 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 158, in test self.assertEqual(test_data.get_value, getter.get()) AssertionError: 1 != 0	Failure
<b>Vacuum interlock status:</b>		
74	Vacuum interlock status: Vacuum Status None	Success
<b>Setup Magnetron:</b>		
75	Setup Magnetron: Set to external timing None	Success
<b>Setup timing system:</b>		
76	Setup timing system: Set frequency to 14Hz None	Success
<b>Setup EVR system:</b>		
77	Setup EVR system: Set pulse width None	Success

<b>HV PS configuration:</b>		
78	Phase A - HV PS configuration: Set High Voltage Power Supply to 75000V None	Success
79	Phase A - HV PS configuration: Put the HV Power Supply On None	Success
<b>Vacuum configuration:</b>		
80	Phase B - Vacuum configuration: Set MFC to 2.8sccm None	Success
81	Phase B - Vacuum configuration: Flow is around 2.8sccm None	Success
<b>Magnetic system configuration:</b>		
82	Phase C - Magnetic system configuration: Put Coil 01 Power Supply On None	Success
83	Phase C - Magnetic system configuration: Put Coil 02 Power Supply On None	Success
84	Phase C - Magnetic system configuration: Put Coil 03 Power Supply On None	Success
<b>Repellers configuration:</b>		
85	Phase D - Repellers configuration: Put the Repeller 01 Power Supply On None	Success
86	Phase D - Repellers configuration: Put the Repeller 02 Power Supply On None	Success
<b>ATU configuration:</b>		
87	Phase E - ATU configuration: X axis is activated None	Success
88	Phase E - ATU configuration: Y axis is activated None	Success
<b>Magnetron configuration:</b>		
89	Phase F - Magnetron configuration: Set magnetron forwarded power to 0W None	Success
90	Phase F - Magnetron configuration: Set magnetron reflected power to 700W None	Success
91	Phase F - Magnetron configuration: The magnetron filament is ready None	Success
92	Phase F - Magnetron configuration: Magnetron is On None	Success
<b>Magnetron status:</b>		
93	Magnetron status: Magnetron MW Power Status and wait 3 minutes None	Success
<b>Check chopper interlock status:</b>		

94	Check chopper interlock status: Chopper Chopping Voltage Alarm status None	Success
95	Check chopper interlock status: Chopper Cooling Water Flow Status status None	Success
96	Check chopper interlock status: Chopper Power System Status status 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 158, in test self.assertEqual(test_data.get_value, getter.get()) AssertionError: 1 != 0	Failure
<b>Check repeller interlock status:</b>		
97	Check repeller interlock status: Electrodes Cooling Water Flow Status None	Success
<b>Global interlock status:</b>		
98	Global interlock status: Source Status For Radioprotection None	Success
<b>Coils cooling interlock status:</b>		
99	Coils cooling interlock status: Coil 1 Cooling Water Flow Status None	Success
100	Coils cooling interlock status: Coil 1 Temperature Status None	Success
101	Coils cooling interlock status: Coil 2 Cooling Water Flow Status None	Success
102	Coils cooling interlock status: Coil 2 Temperature Status None	Success
103	Coils cooling interlock status: Coil 3 Cooling Water Flow Status None	Success
104	Coils cooling interlock status: Coil 3 Temperature Status None	Success
<b>High voltage PS interlock status:</b>		
105	High voltage PS interlock status: Access Status None	Success
<b>Physical access interlock status:</b>		
106	Physical access interlock status: Access Status None	Success
107	Physical access interlock status: Radioprotection Sensor Status None	Success
108	Physical access interlock status: Neutral To Ground Resistor Switch Stat None	Success
<b>Matching transfer cooling interlock status:</b>		
109	Matching transfer cooling interlock status: Matching Transformer Cooling Water Flow None	Success

<b>Plasma chamber interlock status:</b>		
110	Plasma chamber interlock status: Plasma Chamber Cooling Water Flow Status None	Success
<b>Coils power interlock status:</b>		
111	Coils power interlock status: Coil 1 Power Supply Status None	Success
112	Coils power interlock status: Coil 2 Power Supply Status None	Success
113	Coils power interlock status: Coil 3 Power Supply Status None	Success
<b>Beam stop cooling interlock status:</b>		
114	Beam stop cooling interlock status: Beam Stop Cooling Water Flow Status None	Success
<b>Solenoid and klixon interlock status:</b>		
115	Solenoid and klixon interlock status: Solenoid 1 Cooling Water Flow Status None	Success
116	Solenoid and klixon interlock status: Klixon 1 power Stat None	Success
117	Solenoid and klixon interlock status: Solenoid 2 Cooling Water Flow Status None	Success
118	Solenoid and klixon interlock status: Klixon 2 power Stat None	Success
<b>Collimator interlock status:</b>		
119	Collimator interlock status: Collimator Cooling Water Flow Status None	Success
<b>EMU interlock status:</b>		
120	EMU interlock status: EMU 1 Cooling Water Flow Status None	Success
121	EMU interlock status: EMU 2 Cooling Water Flow Status None	Success
<b>Faraday cup interlock status:</b>		
122	Faraday cup interlock status: Faraday Cup Cooling Water Flow Status None	Success
<b>Iris interlock status:</b>		
123	Iris interlock status: IRIS Cooling Water Flow Status 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 158, in test self.assertEqual(test_data.get_value, getter.get()) AssertionError: 1 != 0	Failure
<b>Vacuum interlock status:</b>		



124	Vacuum interlock status: Vacuum Status None	Success
<b>Turn off magnetron:</b>		
125	Turn off magnetron: Switch magnetron Off None	Success
<b>Turn off HV power supply:</b>		
126	Turn off HV power supply: Set HV power supply voltage to 0V None	Success
127	Turn off HV power supply: Switch HV power supply off None	Success
<b>Turn off repeller power supplies:</b>		
128	Turn off repeller power supplies: Switch Repeller 01 Power Supply Off None	Success
129	Turn off repeller power supplies: Switch Repeller 02 Power Supply Off None	Success
<b>Turn off coil power supplies:</b>		
130	Turn off coil power supplies: Switch coil 01 power supply off None	Success
131	Turn off coil power supplies: Switch coil 02 power supply off None	Success
132	Turn off coil power supplies: Switch coil 03 power supply off None	Success