

# After Thermal Cycle

Version 6.2 19/10/04		<b>LIST OF TESTS FOR A DIPOLE</b>	<i>Estimated Time</i>	<i>estimate count [hours]</i>	<i>Documents</i>
	SCAN4	<b>Scan the HV Mobile Rack</b>	0:15	<b>0:15</b>	
PTC	2	<b>HV Insulation test.</b> "Cold initial before test connected to CFB"	1:45	<b>2:00</b>	<b>CDBP HV</b>
PT	1	<b>IAP @cold.</b> (Check of T-Coil, tuning of offset and compensation for Potaim cards and Qloc). (Not needed if the dipole was not removed from the bench)	1:30	<b>3:30</b>	
PTC	3	<b>Resistance Measurement.</b> (Quench Heaters)	0:15	<b>3:45</b>	<b>CDBP Resistance</b>
PTC	5.2	<b>HALF HF.</b> (Provoked Quench at 1.5 kA. Triggered by one card and protected by the other)	1:00	<b>4:45</b>	
PTC	6	<b>Training Quenches.</b> According to the current Thermal Cycle training flowchart.	8:00	<b>12:45</b>	
PTC	8	<b>De-excitation.</b> Ramp to 12000A and Slow PA. (If Slow PA was not performed at ultimate)	0:30	<b>13:15</b>	
	SCAN5	<b>Scan the HV Mobile Rack</b>	0:15	<b>13:30</b>	
PTC	9	<b>HV Insulation Tests:</b> "Cold final after test connected to CFB"	1:45	<b>15:15</b>	<b>CDAP HV</b>
PTC	10	<b>Minimum Energy Quench @ 11850A</b> (fast PA disabled) to warm up the magnet, or <b>Provoked Quench @ 11850A</b> , according to instructions.	0:30	<b>15:45</b>	
		<b>Make sure Quench Heaters are discharged before starting Thermal Cycle.</b>		<b>15:45</b>	
PTC	12	<b>Warm Up.</b> Put 2A in the magnet and launch Thermal Cycle in TEMA.	0:30	<b>16:15</b>	
		Electrical disconnection of the cables between TRU and mobile rack.			
<b>Warm-up</b>					
PTC	13.1	<b>IAP @warm.</b> No Quench Heater Discharge Test.	1:00	<b>17:15</b>	
PTC	13.2	<b>Resistance Measurement.</b> (Quench Heaters, Voltage taps, Correctors, Cryo Heater and Temp. sensor)	0:30	<b>17:45</b>	<b>CDW2 Resistance</b>
PT	14	<b>Sign for Standby / Stripping.</b>	0:15	<b>18:00</b>	
	ICS5	<b>SIGN TRAVELLER.</b>			<b>WP07</b>
	SCAN6	<b>After disconnection, scan the EMPTY label on the CFB.</b>			
		<b>Total Duration</b>		<b>17:45</b>	