

Version 6.11 25/01/05		LIST OF TESTS FOR A NEW DIPOLE With Magnetic Measurements - No Thermal Cycle	<i>Estimated Time</i>	<i>estimate count [hours]</i>	<i>Documents</i>	
Preparatory tests at Warm						
Prep	ICS1	HV Test performed by ICS. "Warm initial before bolting"				
	ICS2	Electrical Connection to CFB (ICS - BOLTING)				
	SCAN1	Scan Bench, Magnet Name, Gammelles and Anticryostats (or the MRB end-plates if no anticryostats are installed) or Enter the magnet Name in TEMA if MTF & hwrec are not active.	0:15	0:15		
	1	Lyre Test. (With ICS)	0:30	0:45		
	2.1	IAP @ warm. LF heater discharge	0:30	1:15		
	2.2	IAP @ warm. HF heater discharge	0:30	1:45		
	2.3	Resistance Measurement. (Quench Heaters after discharge)	0:30	2:15	CDW1 Resistance	
	SCAN2	Scan the HV mobile rack. Check Gamelle entry in MTF.	0:15	2:30		
	3	HV Insulation Test. "Warm initial after bolting to CFB"	1:30	4:00	CDW1 HV	
	ICS3	SIGN TRAVELLER.				WP04 9.1,9.2,9.3 Page 6/10
	CR1	Cryo Team Leak test	0:30	4:30		
	ICS4	Final Connection to CFB /CFU (ICS)				
	SCAN3	Scan the Shafts, TRU and Mobile Rack, or Quench Antennae.	0:15	4:45		
	4	Connect the TRU with the mobile rack if shafts are available. Start T-COIL if the bench is active.	0:30	5:15		
5	Cool Down. Put 2A in the magnet and launch Thermal Cycle in TEMA.	30:00	35:15			
Cold tests at 1.9K						
	SCAN4	Scan the HV Mobile Rack	0:15	35:30		
PT	2	HV Insulation test. "Cold initial before test connected to CFB"	1:45	37:15	CDBP HV	
PT	1	IAP @ cold. (Check of T-Coil, tuning of offset and compensation for Potaim cards and Qloc).	1:30	38:45		
PT	3	Resistance Measurement. (Quench Heaters)	0:15	39:00	CDBP Resistance	
PT	4	Slow Power Abort Check @ 1000A.	0:30	39:30		
MM	1	Shaft alignment and MMP Checks @ 1500A.	0:45	40:15		
PT	5.1	HALF LF. (Provoked Quench at 1.5 kA. Triggered by one card and protected by the other)	1:00	41:15		
	5.2	HALF HF. (Provoked Quench at 1.5 kA. Triggered by one card and protected by the other)	1:00	42:15		
PTE		Minimum Energy Quench @ 3kA (fast PA disabled) for Diode Test.	2:30	44:45		
PT	6	Training Quenches. According to the current training flowchart.	20:00	64:45		
MM	2	LHC cycle.	2:30	67:15		

MM	3	Full load line. (+ Joints Measurements)	3:00	70:15	
PT	8	De-excitation. Ramp to 12000A and Slow PA. (If Slow PA was not done at ultimate)	0:30	70:45	
MM	4	Single Stretched Wire.	6:00	76:45	
	SCAN5	Scan the HV Mobile Rack	0:15	77:00	CDPT
PT	9	HV Insulation Tests: "Cold final after test connected to CFB"	1:45	78:45	CDAP HV
PT	10	Minimum Energy Quench @ 11850A (fast PA disabled) to warm up the magnet	0:30	79:15	
		Make sure Quench Heaters are discharged before starting Thermal Cycle.		79:15	
PT	12	Warm Up. Put 2A in the magnet and launch Thermal Cycle in TEMA.	0:15	79:30	
		Electrical disconnection of the cables between TRU and mobile rack.			
Warm-up					
	13.1	IAP @warm. No Quench Heater Discharge Test.	1:00	80:30	
PT	13.2	Resistance Measurement. (Quench Heaters, Voltage taps, Correctors, Cryo Heater and Temp. sensor)	0:30	81:00	CDW2 Resistance
PT	14	Sign for Standby / Stripping.	0:15	81:15	
	ICS5	SIGN TRAVELLER.			WP07
	SCAN6	After disconnection, scan the EMPTY label on the CFB.			
		Total Duration without Thermal Cycle : all Prep + Cooldown(30hrs)+Power + MM tests + SSW		81:00	