Changes needed? ask Jens Blisplinghoff.

COMPASS Checklist 2008

Date:	2008	Night	Day	_ Evening	
CL:£1	oodor:				
Smitt	eader:				
to be performed twice	e per shift				
-	-				
General Checks				Time	
First run number after checklist done:					
Print and check Be	eam Line Magnet S	tatus and Spi	11		
Print and check STATUS GENERAL					
Calculate and apply new pressures for CEDARs				(instructions at Beamline PC)	
(only evening shift)					
Check MurphyTV f	or every run				
Print booky once, store bookies (ps files) twice per shift in					
shift_manager, check for every run, write a comment on				≈ 2 and 6 hrs after shift start	
the logbook, describing if and what problems were found					
Check Scaler display, especially calo and veto rates (on the lower half of the browser window)				not required	
(cd \$HOME then ./guitest then click Make Booky then print tmplast.ps)					
Check triggers in TCS status window regularly and					
put screenshots to the logbook					
Print and check masked alarms in slow control					
Print and check channels OFF and channel settings lists				how many channels off?	
Periodically check all MMs/DCs are ON (rightmost screen)					
run check_daq: look for red lines; if yes, write a comment					
check EVB disk usage, if any in red state call DAQ expert			not required		
SM2-NMR reading: scope / history in DCS (1.92642 ± 0.0005)			/_		
~~ · · · · · · · · · · · · · · · · · ·	O	idinal target i	,	(59.97 ± 0.04)	
SM1-Hall (DVM)	0	idinal target f	*	(59.72 ± 0.04)	To be
		rse target fiel		(59.88 ± 0.04)	changed
DAQ Barrack, chec			$\Gamma \text{ below } \simeq 30^{\circ}$	c	
RICH Gassystem			/h(24.5.03):		
If not ok: switch of		-			
Check the blue com	-	~ `	$rations): \underline{\hspace{1cm}}$	_	
If not on: switch of	f PD HV and call e	xpert			
MW2 Gassystem					
Check 6 input flow Check 6 output but	meters: $10-35 l/h$	1 – 6:			
		? 1 – 6:			
If some are not bubbling: call expert					
safety bubbler should not bubble more than 0.1 - 1 hz					
MW1 and RICH	•				
Check 8 MW1 inpu		·	1 – 8		
Check 8 RW input flow meters: ch. 1-3,5-8 \simeq 5 - 20 l/h , ch. 4 \simeq 14 - 20 l/h					

Check 6 MM output bubblers: all bubbling? 1 – 6				
Check 3 DC output bubblers: all bubbling? 1-3				
Check that security bubblers are NOT bubbling (lower row):				
RICH light gas pipe: He system				
Check 2 flow meters: #8: Range 6 < flow < 161/s: #10 Range 10 < flow < 20 1/s:				
Note: #8 close to lower limit				
MW2 Gas Control Modules (green rack)				
MW2:range $45 < Ar < 90$ range $15 < CH_4 < 30$ Ar/CH ₄ $\approx 1/3$				
If flows deviate by more than 2 units: Press "RESET" button on control unit				
PLC3 (W45, MM, DC, RWall/MW1) (do not care about MW2 here)				
press "Logo" to get started (Note: press "Esc" to get back one menu)				
Check that W45, MM, DC, RWall/MW1 Battery are ON				
If something is not ON, call expert and switch off HV of chamber concerned				
Press "MM": Check "Flowmeters: ON"? check Ne flow: $6 \pm 1 \text{ l/h}$:				
Press "Curves" (R8): Check "Actual Value" C ₂ H ₆ is 10%				
Press "Next" (R8): Check "Actual Value" \mathbf{CF}_4 is 0%				
Press "DC": Check "Flowmeters: ON"? check Ar flow: $7 \pm 2 \text{ l/h}$:				
Press "Curves" (R8): Check "Actual Value" C_2H_6 is $45 \pm 1\%$				
Press "Next" (R8): Check "Actual Value" CF ₄ is 10%				
Press "W45": Check "Flowmeters: ON"? check Argon flow: $110 \pm 20 \text{ l/h}$				
Press "Curves" (R8): Check "Actual Value" $\overline{\text{CF}_4}$ is 10%				
Press "Next" (R8): Check "Actual Value" CO ₂ is 5%				
Press "Rich Wall": Check "Flowmeters: ON"?				
Press "Curves" (R8): Check "Actual Value" CO ₂ is 30%				
Press "Logo" to finish				
Flows Silicon: 3 flow meters (between grey rack with bubblers and green rack)				
Si01: ≈350 l/h Si02: ≈350 l/h Si03:≈350 l/h				
PLC2 (STRAW, MWPC, GEMs, CSI)				
press "Logo" to get started (Note: press "Esc" to get back one menu)				
Check that Straw, MWPC, GEM, CSI Battery are ON				
If something is not ON, call expert and switch off HV of chamber concerned				
Press "Straw setting": Check "Flowmeters: ON"?				
Check Ar flow: 105 ± 5 l/h: CF ₄ flow: 13 ± 1 l/h: CO ₂ flow: 13 ± 1 l/h:				
Press "CF ₄ mixture curve" (R6): Check "Actual Value" CF ₄ is 10%				
Press "Esc", then "CO ₂ mixture curve" (R8): Check "Actual Value" CO ₂ is 10%				
Press "MWPC setting": Check "Flowmeters: ON"?				
Press "CO ₂ mixture curve" (R6): Check "Actual Value" CO ₂ is 6%				
Press "Esc", then "CF ₄ mixture curve" (R8): Check "Actual Value" CF ₄ is 20%				
Press "GEMs setting": Check "Flowmeters: ON"?				
Check Ar flow: 38 l/h: CO ₂ flow: 16 l/h:				
Press "CO ₂ mixture curve" (R6): Check "Actual Value" CO ₂ is constant at 30%				
Press "Logo" to finish				
GEMs: flow to GM01-11 and GP01-03: $3 < \text{flow} < 5 \text{ l/h} \text{ (upper edge of the ball)}$				
Knock on the glass cover if the ball does not move. Careful when readjusting!				
MWPCs				
MWPCs input flow meters: between 5 and 17 units				
Straws				
Flow meters 1-3, 5-17 with 60 l/h ?				
All flowmeter readings between red labels?				
W45 Ch 1: 50 – 60 l/h Ch 2: 50 – 60 l/h Ch 3: 50 – 60 l/h				
Ch 4: 50 - 60 l/h Ch 5: 50 - 60 l/h Ch 6: 50 - 60 l/h				