

1 Help with Check List Items

1.1 Help with Page 1

What	Where to find it	How to do it
DATE (month-day-year)	As given by Run Control	Enter as MM/DD/YY
Time (24 hour clock)	As given by Run Control	Write the time into the cell
Your Name	As given by your parents	Write legibly
Beam Conditions from Overview Screen, DAQ, MEDMs, and Scalers		
Beam Energy (MeV)	Large TV monitor on top of console, displaying accelerator program.	Get the beam energy of Hall C and write it down
Beam Current	Look for the BCM screen on slow control monitor. The two values indicate two different measurements and should be similar.	Write the beam current in the cell.
IPM3H00AX/AY nominal? (medm)	Xterm on the fartop- left. Look for the BPM screen.	Record the displayed beam position. Compare it with the nominal position in latest run plan.
IPM3H00BX/BY nominal? (medm)	Xterm on the fartop- left. Look for the BPM screen.	Record the displayed beam position. Compare it with the nominal position in latest run plan.
Slow raster (circular?)	Check oscilloscope labelled "Slow raster Display" in electronics room	If you see a circular pattern write YES
Fast Raster R_{max}, I_x, I_y (medm)	Xterm on the top of the right console. Look for the raster_hlc_FR window.	In the "set spiral magnet current" field, record: R_{max} = Radius(mm) I_x =MRAT301H I_y =MRAT301V
Scalers from the bigcal.tcl display on "Slow Cntrls" monitor		
Run Number	See the RunControl window for the current run. Record items below for a recently taken and analyzed run.	Enter the run number which gives the results noted in the next few lines.
HMS Trigger Rate	Read the rates from scaler running on slow control monitor.	
BETA1 Trigger Rate	Read the rates from scaler running on slow control monitor.	
BETA2 Trigger Rate	Read the rates from scaler running on slow control monitor.	
Computer Deadtime	Read the deadtime from scaler running on slow control monitor.	Record the Computer deadtime.
Walk-through of Electronics Room		
WC Thresholds HMS	Rack CH03B10. Three digital voltage readouts. Should be 5.5 v for HMS chambers.	
User Monitor Temperature	top of rack CH03B12, LED digits. Nominal 110 degrees.	Record the reading.

Gas-Yard Checks (Gas Yard Key is #29)		
Argon Bottle High/Low (psig)	Outside gas shed, under roof, right-center.	Record the two pressure gauge readings on the argon gas manifold.
Ethane Bottle High/Low (psig)	Outside gas shed, under roof, on the right.	Record the two pressures on the ethane gas manifold.
Helium bottle Pressure	Outside gas shed, under roof, on the left.	Record the bottle pressure and the flowmeter reading.
Helium bottle Flow	Outside gas shed, under roof, on the left.	Record the bottle pressure and the flowmeter reading.
Mixer Flows: Argon=CH1 Ethane=CH2	Inside gas shed, on the CRT display - channels 1 and 2. (Press ONLY "esc" to wake display.)	Record the values on the "Actual flow" line. The two values should be about equal for a 50/50 mixture.
Mixer Outlet Pressure	Inside gas shed, Pressure Gauge on left-hand rack. Read "psi" scale.	Record the pressure. Should be \approx 9.5psi
Alcohol Temperature ($^{\circ}$ C)	Inside gas shed, digital temperature display in right-hand rack.	Record the temperature.
Controller Temperature ($^{\circ}$ C)	Inside gas shed, digital temperature display in right-hand rack.	Record the temperature.
Alcohol Bubbling? (HMS and FPP)	Inside gas shed, within refrigerator (right=HMS).	QUICKLY open/close door, verify that gas is bubbling through the alcohol inside the glass dome.

1.2 Help with Page 2

What	Where to find it	How to do it
DATE (month-day-year)	See what you wrote on page 1.	Enter it here, too.
Time (24 hour clock)	See what you wrote on page 1.	Enter it here, too.
HMS slit	telnet hctsv7 2003 (HMS) or hctsv5 2005 (SOS). See instructions posted above "SLOW CONTROLS" Xterm or see the Collimators <i>Howto</i> [?].	Determine and record the slit position as either PION or SIEVE or SMALL or LARGE.
Scattering Chamber Vacuum	Target cryo screen. Ask target operator if needed.	Record the reading.
Target	Ask target operator.	Record which target is in the beam.
HMS Shutter Open?	See the LEDs labeled "HMS SHUTTER" located above the "DATA ACQUISITION" terminal.	Shutter must be "OUT" when taking beam.
HMS angle (TV/GUI)	TV Monitor 4 and Spectrometer Rotation GUI	Read the angle and write it down. TV and GUI should agree.
Hall Survey (TV)	Scan all the cameras in the hall looking for anything unusual.	Verify that you performed the inspection by checking off the box.
HMS Cer. Temp/Press (TV)	Two LED readouts visible on TV monitor #7. Select the camera labeled "HMS CERENK".	Record the values.

High Voltages: HV ON and GUI Alarm Enabled?		
All HMS Detectors	HMS HV GUI on cdaqs3 xterm.	Verify that all GUI is "RUNNING" and not indicating any bad channels.
All BETA Detectors	BETA HV GUI on cdaqs3 xterm.	Verify that all GUI is "RUNNING" and not indicating any bad channels.
All BigCal Detectors	BigCal HV is on cdaqs3 xterm and has three GUIs 'GEP HV CONTROLS, TEMP HV CONTROLS, and High Voltage System Control.	Verify that all three GUIs are "RUNNING" and not indicating any bad channels.

Spectrometer Magnets		
HMS Q1,2,3 and D Currents: \pm setpt	PC Monitor in center of control console. See HMS magnet controls <i>Howto</i> [?] for how to navigate.	Write down current polarities and set-points.
HMS Q1, Q2, Q3 Hall Fields: \pm reading	On TV monitor #5. Button labeled HMS NMR (it's really a Hall probe). Top to bottom, the three numbers are Hall Probe readings for HMS Q1, Q2, Q3.	Write down the three numbers including sign.
HMS D NMR Field: \pm read-back	PC Monitor in center of control console. See HMS magnet controls <i>Howto</i> [?] for how to navigate.	Write down the NMR readout.
HMS Q1Q2, Q3, D N2/He Level	PC Monitor in center of control console. See HMS magnet controls <i>Howto</i> [?] for how to navigate.	Record He and N2 levels from their respective screens.
Enter Screen Snapshots in <i>hclog</i>	of BPM medm screen , BCM medm screen	Start an <i>hclog</i> entry. Use the Grab Screen and Grab 2nd Picture to add the required displays to the log entry.
Scan this sheet into <i>hclog</i> when full.	Any Xterm booted on <i>cdagh1</i>	Place the sheet to be scanned on the scanner in rack CH03B08. Start an <i>hclog</i> entry. Use the ScanIt! button to scan the page, then use the Grab Screen button to grab the display of