

Tritium How-To (for shift checklist)

This list can be retrieved in .pdf format at: https://wiki.jlab.org/tegwiki/index.php/File:Shift_Checklist_How-To_02162017.pdf

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Quantity	Where do I find it?
OPS Menu (Do this 1 st , or check that all the menus described here are displayed)	Run NewTools in a terminal on the EPICS computer. A small box which says OPS Menu is displayed. From here, you will open Hall A General Tools . To do this, select EDM(HLA) . Then, select JTABS (HLA) . You will then see a menu (with tabs: Hall A, Operations, System Expert). From this select Hall A and then Tools Display . Another important menu is the JTABS menu. You get this from the OPS Menu . When you select JTABS , you will see a menu (with tabs: Operations, Injector, System Expert, etc).
Alarm handler on hacweb7 (EPICS computer)	From the "toolbox" icon in the lower taskbar, press the "Alarm Handler" label.
Beam Energy (GeV)	This information can be found in the Hall A General Tools . It is in the Beamline box.
Beam energy lock on? Yes/No	This information can be found in the Hall A General Tools. It is in the Beamline box below BPMB X. This doesn't work right now. Instead read halog (see halog 3385399)
Beam current (μA)	From the JTABS (HLA) menu, select Hall A and then select BCM . Finally, select Current Monitor .
Raster on? Yes/No	Look through the window beneath the bookshelf and check the scope on CH01B05 . If the raster is on, there should be a box on the screen. Otherwise, the raster is off.
Fast feedback on? Yes/No	Go to the Hall A General Tools on the EPICS computer and find Beamline . The information is contained directly below the BPMB Y box. It will either show RF on or RF off.
Spot size X/Y (mm)	See halog 3304885 for instructions.
Beam Position Monitor X/Y (mm)	A Go to the Hall A General Tools on the EPICS computer and find Beamline . The information contained in BPMA for X and Y is what is needed here.
Nominal values are posted on the white board	B Go to the Hall A General Tools on the EPICS computer and find Beamline . The information contained in BPMB for X and Y is what is needed here.
BCM temperature (K)	Look through the windows below the book shelf at crate CH01B06 . This information is in the uppermost panel. Record the temperature controller values (PV, SV) and the thermocouple feedback value.
Half wave plate in/out	Go to JTABS menu and find Injector . Find Parity and then Parity Controls . Look at Insertable Waveplate
Wien angle	Go to JTABS menu and find Injector . Find Spin and then Spin Controls . Look at the bottom of the screen for HwienAngle .
Target/Loop	On the target computer, find all the labels marked Target and write down what information is given.
Target temperature (K)	Look directly below the Target label and you will see the target temperature in kelvins. Do this for each loop.
Target pressure (psi)	Look directly below the temperature information for the target in each loop and you will find the pressure information in psi.

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Argon pressure (psi)	Go to the Hall A General Tools and find Gas Shed
Ethane pressure (psi)	Go to the Hall A General Tools and find Gas Shed
CO2 pressure (psi)	Go to the Hall A General Tools and find Gas Shed
Left arm angle (deg)	Look at the left screen in the crate CH01A06 . Check for the number at the bottom of the screen.
Left arm momentum (GeV)	Go to the Hall A General Tools and find Left and then P0 Set
Left arm momentum regulator on (Q1,Q2,D,Q3)?	On the Hall A General Tools , find the Left HRS section. Then, find p0 set and select the blue box to the right of GeV/c . If $p_0 > 2.53$, the regulator on Q1 should be off.
Left arm cryo flow level OK? Yes/no He>60%, N>25%	Go to the Hall A General Tools and find Left and then go to Helium . Look in the top box which is marked Left Spectrometer .
Left arm NMR locked? Yes/no	Check the upper of the two scopes (labelled Left) in the CH01A02 crate. If you see a stable signal on channel 1 waves, then NMR is locked. Also see https://logbooks.jlab.org/entry/3442186
Left arm Q1 current (A)	Go to Hall A General Tools . Find Left and then Q1. Look for column I(A).
Left arm Q2 current (A)	Go to Hall A General Tools . Find Left and then Q2. Look for column I(A).
Left arm D current (A)	Go to Hall A General Tools . Find Left and then D. Look for column I(A).
Left arm Q3 current (A)	Go to Hall A General Tools . Find Left and then Q3. Look for column I(A).
Left s0/s2mHV on?	Open the HVGUI (check how to do this by visiting https://hallaweb.jlab.org/wiki/index.php/How_to_HRS/_DVC_S#DVCS_:High_Voltage_controls) and go to map . Select s0 and s2 if they are not already present. When they are open, you should see a set of grey boxes labelled S0:Channel Status and S2:Channel Status . There will be 3 columns. In the last two columns (counting from the left), check that all boxes have a green button inside. If this is the case for all channels, then the answer to this question is yes . If otherwise (i.e., at least one channel does not have a green object inside), then put no and write a short note with the following questions in mind: Are all channels off or is it that some channels are off?
Left Cerenkov HV on?	Open the HVGUI (check how to do this by visiting https://hallaweb.jlab.org/wiki/index.php/Ar%28ee%27p%29#Slow_control) for the left arm and go to map . Select Cerenkov if it is not already present. When it is open, you should see a set of grey boxes labeled Cerenkov:Channel Status . There will be 3 columns. In the last two columns (counting from the left), check that all boxes have a green button inside. If this is the case for all channels, then the answer to this question is yes . If otherwise (i.e., at least one channel does not have a green button inside), then put no and write a short note with the following questions in mind: Are all channels off or is it that some channels are off?

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Left Pion rejector HV on?	Open the HVGUI for the left arm and go to map . Select PRL1 and PRL2 if they are not already present. When it is open, you should see a set of grey boxes labelled PRL1:Channel Status . There will be 3 columns. In the last two columns (counting from the left), check that all boxes have a green button inside. If this is the case for all channels, then the answer to this question is yes . If otherwise (i.e., at least one channel does not have a green button inside), then put no and write a short note with the following questions in mind: Are all channels off or is it that some channels are off?
Left VDC gas flow (top/bottom)	Go to the Hall A General Tools and find Gas Flow . Look in the bottom region and find T_VDC for top VDC gas flow and B_VDC
DVCS valid rates (Hz)	Use the xscaler tool for the LHRS. You can find those rates off the “misc” tab. If this is 0, maybe you are running the LHRSnew configuration. That’s not DVCS production.
Left Dead time (%) -scalers	Check the LHRS Dead time monitor on the DAQ computer. To do this, time datamon on the adaq machine. Then, type datamonL . The datamon might already be open
EDTM	Log into dvcs@intelha3. Type the following in the terminal: ps aux grep -i edtm. If you see something like: root 7109 100 0.0 1984 588 pts/4 R 11:16 4:21 /root/edtm/flexioctl edtm ..., then the EDTM is running. You might also look at T7 on the LHRS xscaler. It should run at 6 Hz.
Right arm angle (deg)	Look at the right screen in the crate CH01A06 . Check for the number at the bottom of the screen.
Right arm momentum (GeV)	Go to the Hall A General Tools and find Right and then P0 Set
Right arm momentum regulator on (Q1,Q2,D,Q3)?	On the Hall A General Tools , find the Left HRS section. Then, find p0 set and select the green box to the right of GeV/c .
Right arm cryo flow level OK? Yes/no He>60%, N>25%	Go to the Hall A General Tools and find Right and then go to Helium . Look in the bottom box which is marked Right Spectrometer .
Right arm NMR locked? Yes/no	Check the lower of the two scopes (labelled Right) in the CH01A02 crate. If you see a stable signal on channel 1, then NMR is locked. Alternative method see: https://logbooks.jlab.org/entry/3442186
Right arm Q1 current (A)	Go to Hall A General Tools . Find Right and then Q1. Look for column I(A).
Right arm Q2 current (A)	Go to Hall A General Tools . Find Right and then Q2. Look for column I(A).
Right arm D current (A)	Go to Hall A General Tools . Find Right and then D. Look for column I(A).
Right arm Q3 current (A)	Go to Hall A General Tools . Find Right and then Q3. Look for column I(A).
Right s0/s2m (RHRS_s0/RHRS_s2m) HV on?	Open the right HVGUI (check how to do this by visiting

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	<p>https://hallaweb.jlab.org/wiki/index.php/How_to_HRS_/DVC_S#DVCS:_High_Voltage_controls) and go to map. Select RHRS_s0 and RHRS_s2m if they are not already present. When they are open, you should see a set of grey boxes labelled RHRS_s0:Channel Status and RHRS_S2:Channel Status. There will be 3 columns. In the last two columns (counting from the left), check that all boxes have a green button inside. If this is the case for all channels, then the answer to this question is yes. If otherwise (i.e., at least one channel does not have a green object inside), then put no and write a short note with the following questions in mind: Are all channels off or is it that some channels are off?</p>
Right Cerenkov (RHRS_gc) HV on?	<p>Open the HVGUI for the right arm and go to map. Select Cerenkov if it is not already present. When it is open, you should see a set of grey boxes labelled RHRS_gc:Channel Status. There will be 3 columns. In the last two columns (counting from the left), check that all boxes have a green button inside. If this is the case for all channels, then the answer to this question is yes. If otherwise (i.e., at least one channel does not have a green button inside), then put no and write a short note with the following questions in mind: Are all channels off or is it that some channels are off?</p>
Right Pion rejector HV on?	<p>Open the HVGUI for the right arm and go to map. Select SH and PS if they are not already present. When it is open, you should see a set of grey boxes labelled SH:Channel Status and PS:Channel Status. There will be 3 columns. In the last two columns (counting from the left), check that all boxes have a green button inside. If this is the case for all channels, then the answer to this question is yes. If otherwise (i.e., at least one channel does not have a green button inside), then put no and write a short note with the following questions in mind: Are all channels off or is it that some channels are off?</p>
Right VDC gas flow (top/bottom)	<p>Go to the Hall A General Tools and find Gas Flow. Look in the top region and find T_VDC for top VDC gas flow and B_VDC</p>
Right VDC HV on (top/bottom)?(y/n)	<p>Open the HVGUI for the right arm and go to map. Select VDC if it is not already present. When it is open, you should see a set of grey boxes labelled VDC:Channel Status. There will be 3 columns. In the last two columns (counting from the left), check that all boxes have a green button inside. If this is the case for all channels, then the answer to this question is yes. If otherwise (i.e., at least one channel does not have a green button inside), then put no and write a short note with the following questions in mind: Are all channels off or is it that some channels are off?</p>
Right Dead time (%)	<p>Check the RHRS Dead time monitor on the DAQ computer. To do this, time datamon on the adaq machine. Then, type datamonR.</p>
DTM	<p>Log into dvcs@intelha3. Type the following in the terminal: <code>ps aux grep -i edtm</code>. If you see something like <code>root 7109 100 0.0 1984 588 pts/4 R 11:16 4:21 /root/edtm/flexioctl edtm ...</code>, then the EDTM is running.</p>