Quantity	Where do I find it?
OPS Menu (Do this 1 st , or check that all the menus described here are displayed)	 Run <i>NewTools</i> in a terminal on the EPICS computer. A small box which says <i>OPS Menu</i> is displayed. From here, you will open <i>Hall A General Tools</i>. To do this, select <i>EDM(HLA)</i>. Then, select <i>JTABS (HLA)</i>. You will then see a menu (with tabs: Hall A, Operations, System Expert). From this select <i>Hall A</i> and then <i>Tools Display</i>. Another important menu is the <i>JTABS</i> menu. You get this from the <i>OPS Menu</i>. When you select <i>JTABS</i>, you will see a menu (with tabs: Operations, Injector, System Expert, etc).
Beam Energy (GeV)	This information can be found in the <i>Hall A General Tools</i> . It is in the <i>Beamline</i> box.
Beam energy lock on? Yes/No	This information can be found in the <i>Hall A General Tools</i> . It is in the <i>Beamline</i> box below <i>BPMB X</i> .
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 <i>CH01B05</i> . 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.
	See halog 3304885 for instructions.

	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.
Beam Position Monitor X/Y (mm)	В	Go to the Hall A General Tools on the EPICS computer and find <i>Beamline</i> . The information contained in <i>BPMB</i> for X and Y is what is needed here.
BCM temperature (K)		Look through the windows below the book shelf at crate <i>CH01B06</i> . This information is in the uppermost panel. Record the temperature controller values (PV, PS) 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 <i>Target</i> and write down what information is given.
Target temperature (K)		Look directly below the <i>Target</i> 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.
DVCS Calorimeter HV on?		Open the DVCS Calorimeter HV (go to <u>https://hallaweb.jlab.org/wiki/index.</u> php/How to HRS / DVCS#DVCS :

	Lish Valtere controls for
	<u>High_Voltage_controls</u> for instructions to do this) and look at the middle box between the on and off buttons.
Max. DVCS Calorimeter anode currents (mA)	The anode currents are posted in the beginning and end of run in the halog. Write down the largest value here.
DVCS Cosmic paddles HV on?	In the DVCS Calorimeter HVGUI , The cosmic paddles are L7.4 , L7.5 , L7.10 and L7.11 . Read the measured values.
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 <i>left screen</i> in the crate <i>CH01A06</i> . Check for the number at the bottom of the screen.
Left arm momentum (GeV)	Go to the <i>Hall A General Tools</i> and find <i>Left</i> and then <i>PO Set</i>
Left arm collimator	Go to the <i>Hall A General Tools</i> and find <i>Collimators</i> .
Left arm cryo flow level OK? Yes/no He>60%, N>25%	Go to the <i>Hall A General Tools</i> and find <i>Left</i> and then go to <i>Helium</i> . Look in the top box which is marked <i>Left Spectrometer</i> .
Left arm NMR locked? Yes/no	Check the upper of the two scopes (labelled <i>Left</i>) in the <i>CH01A02</i> crate. If you see triangle waves, then NMR is locked. Otherwise, it is not locked.
Left arm Q1 current (A)	Go to <i>Hall A General Tools</i> . Find <i>Left</i> and then Q1. Look for column I(A).
Left arm Q2 current (A)	Go to Hall A General Tools . Find
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,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<i>Left</i> and then Q2. Look for column I(A).
Left arm D current (A)	Go to <i>Hall A General Tools</i> . Find <i>Left</i> and then D. Look for column I(A).
Left arm Q3 current (A)	Go to <i>Hall A General Tools</i> . Find <i>Left</i> and then Q3. Look for column I(A).
Left s0/s2m HV on?	Open the <i>HVGUI</i> (check how to do this by visiting <u>https://hallaweb.jlab.org/wiki/index.</u> <u>php/How_to_HRS_/_DVCS#DVCS:</u> <u>High_Voltage_controls</u>) and go to <i>map</i> . Select <i>s0</i> and <i>s2</i> if they are not already present. When they are open, you should see a set of grey boxes labelled <i>S0:Channel Status</i> and <i>S2:Channel Status</i> . 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 <i>HVGUI</i> (check how to do this by visiting <u>https://hallaweb.jlab.org/wiki/index.</u> <u>php/How_to_HRS_/_DVCS#DVCS :</u> <u>High_Voltage_controls</u>) for the left arm and go to <i>map</i> . Select <i>Cerenkov</i> if it is not already present. When it is open, you should see a set of grey boxes labelled <i>Cerenkov:Channel Status</i> . There will be 3 columns. In the last two columns (counting from the left),

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	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 Pion rejector HV on?	Open the <i>HVGUI</i> for the left arm and go to <i>map</i> . Select <i>PRL1</i> and <i>PRL2</i> if thay are not already present. When it is open, you should see a set of grey boxes labelled <i>PRL1:Channel Status</i> . 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 are off?
Left VDC gas flow (top/bottom)	Go to the <i>Hall A General Tools</i> and find <i>Gas Flow</i> . Look in the bottom region and find <i>T_VDC</i> for top VDC gas flow and <i>B_VDC</i>
Left Dead time (%)	Check the <i>LHRS Dead time</i> <i>monitor</i> on the DAQ computer. To do this, time <i>datamon</i> on the adaq machine. Then, type <i>datamonL</i> .
EDTM	Log into <u>dvcs@intelha3</u> . Type the following in the terminal: ps aux grep -i edtm. If you see something like 21586 97.8 0.0 1984 584 pts/0 R 10:24 0:17 ./flexioctl

	edtm 2 4, then the EDTM is running.

Right arm angle (deg)	Look at the <i>right screen</i> in the crate <i>CH01A06</i> . Check for the number at the bottom of the screen.
Right arm momentum (GeV)	Go to the <i>Hall A General Tools</i> and find <i>Right</i> and then <i>P0 Set</i>
Right arm collimator	Go to the <i>Hall A General Tools</i> and find <i>Collimators</i> . Select the light blue box. A window will open. At the very bottom of the window you will see 3 values for open, 6 msr and sieve. Record all 3 numbers.
Right arm cryo flow level OK? Yes/no He>60%, N>25%	Go to the <i>Hall A General Tools</i> and find <i>Right</i> and then go to <i>Helium</i> . Look in the bottom box which is marked <i>Right Spectrometer</i> .
Right arm NMR locked? Yes/no	Check the lower of the two scopes (labelled <i>Right</i>) in the <i>CH01A02</i> crate. If you see triangle waves, then NMR is locked. Otherwise, it is not locked.
Right arm Q1 current (A) (Not functional)	Go to <i>Hall A General Tools</i> . Find <i>Right</i> and then Q1. Look for column I(A).
Right arm Q2 current (A)	Go to <i>Hall A General Tools</i> . Find <i>Right</i> and then Q2. Look for column I(A).
Right arm D current (A)	Go to <i>Hall A General Tools</i> . Find <i>Right</i> and then D. Look for column I(A).
Right arm Q3 current (A)	Go to <i>Hall A General Tools</i> . Find <i>Right</i> and then Q3. Look for column I(A).
	Open the right <i>HVGUI</i> (check how

Right s0/s2m HV on?	to do this by visiting https://hallaweb.jlab.org/wiki/index. php/How_to_HRS_/_DVCS#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?
Right Cerenkov HV on?	Open the <i>HVGUI</i> for the right arm and go to <i>map</i> . Select <i>Cerenkov</i> if it is not already present. When it is open, you should see a set of grey boxes labelled <i>Cerenkov:Channel</i> <i>Status</i> . 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?
	Open the <i>HVGUI</i> for the right arm and go to <i>map</i> . Select <i>PRL1</i> and <i>PRL2</i> if thay are not already present. When it is open, you should see a set of grey boxes labelled

Right Pion rejector HV on?	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?
Right VDC gas flow (top/bottom)	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
Right VDC HV on (top/bottom)?(y/n)	Open the <i>HVGUI</i> for the right arm and go to <i>map</i> . Select <i>VDC</i> if it is not already present. When it is open, you should see a set of grey boxes labelled <i>VDC:Channel Status</i> . 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?
Right Dead time (%)	Check the RHRS Dead time monitor on the DAQ computer. To do this, time datamon on the adaq machine. Then, type datamonR .
EDTM	Log into <u>dvcs@intelha3</u> . Type the following in the terminal: ps aux

grep -i edtm. If you see something
like 21586 97.8 0.0 1984 584
pts/0 R 10:24 0:17 ./flexioctl
edtm 2 4, then the EDTM is running.