

MPMS with MultiVu: IN RESPONSE TO A SCHEDULED POWER OUTAGE

System Shutdown Procedure

1. Make sure a sequence is not in progress. The SEQUENCE STATUS can be viewed from the CONTROL CENTER found on the left-hand side of the screen. If this CONTROL CENTER is not present, go to VIEW on the top command bar and click on the CONTROL CENTER selection. Within the CONTROL CENTER, the status of the sequence should report IDLE. If a sequence is currently running or is in a paused state, press the ABORT button to clear out the sequence queue. Now the SEQUENCE STATUS should report IDLE.
2. Set the system temperature to 300K and remove the sample from the sample chamber. With the DC TRANSPORT head installed, make sure the airlock valve remains in a closed state with the sample removed. The BLUE PLUG should also remain in place at the top of the transport. If the RSO TRANSPORT is installed, remove the sample, return the transport's plug assembly, purge the sample space, and close airlock valve.
3. Set the magnetic field to zero: Go to INSTRUMENT\FIELD from the command bar and set the field to zero. The APPROACH and MODE are not a concern.
4. From the back of the probe, remove the larger of the two stainless pumping lines then proceed with removing the smaller one.
5. Remove the two stainless pumping lines from the rear of the electronic cabinet console.
6. Exit MultiVu from FILE\EXIT and proceed with shutting down the computer once MultiVu has completed its shutdown process.
7. Turn the power switch off to the POWER DISTRIBUTION UNIT located on the second drawer.

System Startup Procedure

1. Turn on the power switch to the POWER DISTRIBUTION UNIT located on the second drawer.
2. Wait 15 minutes for the pump to warm up if the pump is cold to the touch. The pump is accessible through the two front doors on the electronic cabinet console.
3. Start up MultiVu and set the system temperature to 300K. Wait for the temperature reach 300K before continuing.
4. Go to UTILITIES\DIAGNOSTICS\CHAMBER, set the COOLING VALVE state to OPEN, the FLUSH VALVE to CLOSED, and press the SET button. From the same menu, set the IMPEDANCE HEATER state to OFF, and press the SET button.
5. Connect the small pumping line to its mating receptacle found at the rear of the electronic cabinet console and to the rear of the probe head.
6. Connect the large pumping line to the rear of the electronic cabinet console. You will hear a loud hiss from the pump, since the COOLING VALVE is in its OPEN state. Quickly slide the other end into its mating connector found at the rear of the probe head.
7. Connect the set of three flowmeters to the pump exhaust port found at the rear of the cabinet. With the COOLING VALVE in its OPEN state and the IMPEDANCE HEATER OFF, the flow should read above 2000cc/min. Of course the helium level must be greater than 30% in order for this max flow to occur.
8. If the MAX FLOW reads above 2000cc/min, set the temperature to 300K. This will set the COOLING VALVE and IMPEDANCE HEATER in the proper state.
9. At 300K, you are finished with the DC TRANSPORT option. With the RSO TRANSPORT option, purge out the transport, open the airlock valve, and purge out the entire sample chamber. The airlock valve does not need to be opened if the RSO AIRLOCK option is installed.