

What to do when power trips in Counting House/Hall B

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Actions for Expert on Shift

- Check whether the power outage involves only the Hall B counting room or the entire counting house, verifying whether there is power in the aisle or in the other counting rooms
- Note phones will not work immediately after a power outage, but should be available within a few minutes on emergency power. When power is restored, they will reboot.
- Contact MCC to inform them of the outage and verify whether it involves them as well; if the outage does not involve the accelerator ask them to stop the beam
- Inform the run coordinator and PDL and engineering-on-call
- Inform the system experts and follow their instructions. Call ECal, SVT, DAQ, Slow Controls, Trigger, and Beamline. In informing the experts, it is important to note that, if there is no power in the Hall, it will not be possible to enter until power is restored.
- Have subsystem experts restore monitoring for their systems
- If the outage persists, turn off any unnecessary devices in the counting room to save UPS power and to avoid overloading the emergency generator.
- Wait for further instructions or information.

When this last happened, the network stayed up and all computers remained on except the one in the corner that has the tagger dump and FC viewer. That one is now also on UPS.

Actions for SVT Expert

Steps to recover the SVT after a power outage:

- Enter the hall and check that the LV and HV are off
- Use the SVT PLC and SVT software interlock EPICS GUI's to disable/bypass the flow, supply RTD and return RTD interlocks for both the SVT and FEB chillers
- Turn on the SVT chiller (Julabo Presto) from the EPICS GUI
- Turn on the FEB chiller using the power button on the chiller itself
- Once flow is restored, enable the flow interlocks for both chillers
- Wait until the supply/return RTD temperatures are within the acceptable limits and then enable the supply/return RTD interlocks. This restores the chillers to their normal operating state.
- Turn on power to the FEB's and flange. Check how fast power is coming up. If very slow, reboot the hvCaen IOC.
- If HV channels are not responding to the EPICS GUI's, check the web GUI (navigate to hpsmpod) to see if they are interlocked. Running the script `/usr/clas12/hps/svt-evel/apps/svtDaqApp/scripts/clear_mpod_interlock.sh` clears the interlocks via snmp. There is also a button on the SVT Bias EPICS GUI that can/should be used to do this.
- Check the SVT positioners EPICS GUI in order to make sure that the stages haven't moved.

Actions for ECal Expert on Shift

- Call/Page ECal Expert and Follow their Instructions.
- If no contact with ECal Expert, Try Again.
- If no contact with ECal Expert within 1 HOUR, and there are still power issues or communications issues with ECal hardware:
 - * Go To the Pie Tower and Turn off HV (turn key) and LV (flip switch).
 - * See photos in the ECal Manual (page 14) showing where these are on the pie tower and what they look like.
 - * If chiller is off, turn it on if possible.
 - * Record status of all of these and report it to ECal Expert.

Actions for DAQ Expert on Shift

Actions for Slow Controls Expert on Shift