Thursday, November 3, 2022

We realize that the VME LED Driver (VLD) system is lagging. Initially, we were expecting to develop only the Phoebus screens. With regards to the driver development which came up later, it must be mentioned that we received the LED boards (#2 and #3) on May 13 (email from Friday 5/13/2022 2:42 PM). The low-level Linux driver adapted from the test scripts was received on the 22nd of August. On 18th of October, we received some examples on how to generally integrate drivers, not anything to do with the VLD.

 We understand that the LED drivers have taken a higher priority (in a previous email the LED drivers were priority two) and that user-friendly LED controls are important to test the bleaching function. To this end we are making our best effort. Since we are unable to determine when this work will be completed by us, we suggest that someone else is identified to work on the drivers, if there is a specified date by which the VLD system and Phoebus screens are necessary. We are still willing to make the Phoebus screen, once we have the PVs.

In the listing of the three priorities (email of 9/13/2022 3:10 PM) no mention of the chiller software was made. We are glad to say we have made an exceptional effort and completed the chiller software. We have tested all 17 Phoebus screens and are presently debugging certain issues. We are confident that the chiller software will be completed shortly.

DSG will not support the chiller controls hook-up, LED controls cabling, and connection to the thermal/humidity readback. However, DSG will support troubleshooting. With regards to the cabling, Thi Nguyen Trung mentioned that his team would install the humidity sensors. DSG suggests that the associated cables should also be routed by Hall C techs and the collaborators. To support the troubleshooting, it is important to know exactly when installation will happen, because in the month of December several of the DSG staff will be on vacation. Once the date is known, DSG will add the troubleshooting task to our schedule and DSG will coordinate this work.

We have almost all the cables, connectors, power supplies for all the systems. At this time the few remaining items are being ordered. With regards to the 5 V power supply required for the humidity sensors, three 5-V power supplies were procured on June 9, 2021. We have not as yet received any suggestion from the NPS collaboration about where these 5-V power supplies should be located. DSG suggests that the 5-V power supplies be installed in a rack. Given a clear and reasonable schedule, DSG will install the 5-V power supplies, cRIO, and the power distribution for the cRIO.

The only start-up script being used currently is the one provided by the CSS/Phoebus bundle under the cdsg account. Since the start-up script depends on the locations of installed software (Phoebus and the screens) someone else would have to implement the start-up script on other accounts since DSG does not have access to other accounts.

Yes, the wrong picture taken from the NPS wiki page. We have corrected the picture in the new version of the talk.

The initial work request was for a monitoring system; this system is ready and is being tested.

At present the alarm PVs are not available. We are working on this task. The alarm PVs do not rely on BEAST, which is a part of the previous version of CSS.