

Hall D Slow Controls

Date: June 27, 2019

Time: 10:00AM – 11:00AM

Attendees: Pablo Campero, Hovanes Egiyan, Nick Sandoval, Scot Speigel, Tim Whitlatch, and Beni Zihlmann,

1. Solenoid updates

- 1.1. Solenoid cooldown from 80 K to 4 K delayed and re-scheduled to begin by the second week of July due to Cryo group priorities.
- 1.2. No updates on PXI controller replacement and calibration, any update will be post at the Hall D logbooks.

2. Goniometer controls

- 2.1. Since new linear stages modules available do not support 3 A motors, the option would be develop PCB boards for their replacement.
- 2.2. Issues found after replacement of XPS controller; determined that issue could be due to incorrect configuration file (mismatch between file and CPU model) loaded in XPS CPU.

3. Remote reset for HV crates

- 3.1. EPICS screen added and running to reset HV crates remotely.
 - 3.1.1. *Crate Reboot* screen can be found at the EPICS Hall D EPICS menu under *General – Status of Voltages*.
- 3.2. PLC logic to perform remote reset of HV crates for TOF was completed.
- 3.3. PLC logic to reset two HV CAEN crates (CPU- CAEN A4528) still needs to be done.

4. Discussed status of the conversion of Hall D CSS screens to Web EDM screen.

- 4.1. Decided that *Hall D Cameras* CSS screens will not be converted to WEDM screen, since the monitoring of this cameras connected in Hall D subnet will require:
 - 4.1.1. Accelerator EPICS web server crossing to Hall D subnet (Potential Security Network security concerns).
 - 4.1.2. WEDM capability to run a command to link a URL associated with the cameras (Not available).
- 4.2. Hovanes Egiyan requested “Hall D Detector Components” as the name for the WMenu name to be used to show the new developed Hall D WEDM screens developed by DSG.

5. TOF Upgrades

- 5.1. TOF High Voltage EPICS screen completed
- 5.2. High voltage readouts require name mapping updates and agreement on the syntax convention to be used for each HV channels that will be added in the future.

6. DIRC

- 6.1. Cleaning of DIRC windows mechanical components in progress.
- 6.2. Found installed pins in DIRC windows with corrosion, noticed that pins were fabricated with carbon steel rather than stainless steel.
- 6.3. Development of DIRC controls will be delay due to a complete DIRC mechanical component installation is previously required.