Hall D Slow Controls Meeting

Date: June 11, 2020
Time: 10:00AM – 10:30AM

Attendees: Aaron Brown, Peter Bonneau, Hovanes Egiyan, Brian Eng, Tyler Lemon, Nick Sandoval, Scot Spiegel, Tim Whitlatch, Beni Zihlmann

1. Physics run expected to resume July 27, 2020.
    1.1. Starting set up for run this week

2. Solenoid
    2.1. During MEDCON period, there were cryogenic alarms caused by a compressor trip
        2.1.1. Relief valve blown during trip will be checked to ensure it has reseated properly
    2.2. Checkout of Magnet Power Supply (MPS) and interlocks will occur within the next few weeks.
    2.3. IOC will be rebooted to re-implement magnet status bit PVs created for WEDM screens
        2.3.1. Reboot will be coordinated with Hall work and Cryo group to ensure no issues

3. BCAL alarms
    3.1. Upstream BCAL PLC was giving alarms for detector's chiller, but alarms were really for temperature sensors read by PLC
        3.1.1. Misinterpretation of alarms caused by incorrect labeling of alarms
        3.1.2. Alarms labeled have been corrected
    3.2. Ethernet issues in PLC controller appear to be cause of errors that triggered alarms
        3.2.1. Computer Center further verified by finding that Ethernet port PLC is connected to had several duplex errors
    3.3. More processing power allotted to Ethernet port on PLC controller to help resolve issue
        3.3.1. Resolved similar issue with BCAL PLCs in 2016
    3.4. Ethernet cable for PLC will be replaced in further attempts to resolve network errors

4. PLC licenses
    4.1. Nick Sandoval had Computer Center set up a Windows 10 virtual machine with Hall D PLC software and licenses.
    4.2. Host name of virtual machine: "halldts1"

5. Rockwell has discontinued L35E CompactLogix PLC processor
    5.1. Processor is used by several detector systems
        5.1.1. Hall D has two spares on hand if problems arise
    5.2. The Rockwell-suggested replacement model of the processor will be procured to verify that it works correctly for Hall D systems

6. Shutdown work after upcoming physics run is completed
    6.1. Installation of remote PointIO system for DIRC and ComCal gas monitoring
    6.2. Implementation of Ethernet/IP communication for chillers
    6.3. Installation of additional temperature and flow monitoring in Solenoid MPS.