DSG-R&D CS-Studio Phoebus Meeting Minutes

Date: April 26, 2024
Time: 2:00 PM – 3:00 PM

Attendees: Peter Bonneau, Tyler Lemon, and Marc McMullen

1. **Phoebus Test System Hardware**
   Mindy Leffel, Marc McMullen, Tyler Lemon, and Peter Bonneau
   1. Cable assemblies' status
      - Mindy completed 210 cRIO module jumper wire assemblies
      - Mindy completed three of the 25-pin, D-to-ferrule cable assembles
      - Peter provided specifications for the 25-pin D and 37-pin D jumper cable assemblies
      - Mindy has parts to fabricate six 37-pin D assembles
      - Parts due on May 6th for the cRIO BNC cable assemblies
   2. cRIO chassis status
      - Mindy completed the power supply distribution wiring within the chassis
      - Tyler has four cRIO modules for installation in the Phoebus chassis—NI-9485 (relay), NI-9263 (AO), NI-9216 (RTD), and NI-9403 (DIO)
      - Marc provided an external power supply for the chassis
      - Peter has ordered the remaining three cRIO modules. Due to the lack of components at the factory, the delivery date is Aug 6th
   3. Humidity Temperature Sensor Boards (HTSBs) status
      - Marc updated the design of the HTSB V2 PCBs and the revised PCBs have been received
      - Marc is ordering the humidity sensors
      - Fifteen PCBs can be assembled. Need 10 for the Phoebus test system
      - Marc gave Mindy the PCBs, RTDs, and cable for assembly. Cables will be 4 ft
   4. RICH-2 Hardware Interlock System chassis status
      - Tyler gave Mindy parts to start assembly of the chassis
      - The RIO Mezzanine Card (RMC) PCB is assembled
      - Backplane PCB needs assembly by Mindy
      - Ten SHT35 assembled sensor boards are available
      - Cables to the chassis are needed
      - Tyler has a 4-slot expansion chassis cRIO and an sbRIO NI-9629 for the chassis
   5. EIC DIRC Laser Interlock System
      - Mindy will assemble 2nd PCB
      - Wire ferrule cable assemblies will be needed. Peter to make a list
      - Peter will program the Phoebus cRIO and the EPICS softIOC to measure 10 signals from the PCB

2. **Phoebus Test System - System Design**
   Peter Bonneau
   1. Peter gave a talk on Phoebus Test System
      - Group discussed the implementation

3. **EIC DIRC Phoebus Alarm System Software**
   Peter Bonneau
   1. Peter revised auto startup sequencer for the EIC DIRC Phoebus software packages