

Detector Support Group

We choose to do these things "not because they are easy, but because they are hard".

Weekly Report, 2021-08-18

Summary

Hall A - HV

Brian Eng

• Debugging CSS-BOY file extension conversion to Phoebus file extension

Hall A - SoLID

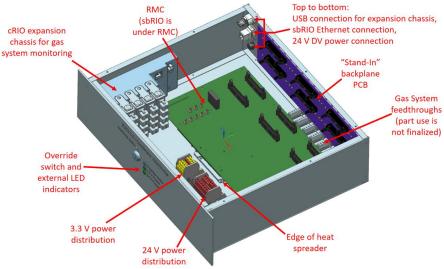
Mary Ann Antonioli, Pablo Campero, Brian Eng, Mindy Leffel, Marc McMullen

- Developing new electrical drawings
 - ★ Axial Load Cells Measurement Wiring Diagram
 - **★** *PLC IO, Remote A, Slot 7 Wiring Diagram*
 - * Axial Load Cell Cable Diagram
- Calculated breaker ampacity to protect transmitter and actuator for electrical ball valve

Hall B – RICH-II

Mary Ann Antonioli, Peter Bonneau, Pablo Campero, Brian Eng, George Jacobs, Tyler Lemon, Marc McMullen

- Researching individually shielded, twisted pair CAT7 cables
 - **★** Selected cable's diameter may be large for most crimp-on RJ45 connectors
 - **★** Looking for thinner cables or larger connectors for selected cables
- Reorganized NX12 model of hardware interlock chassis to provide more room in chassis for RMC



NX12 model of RICH-II hardware interlock chassis

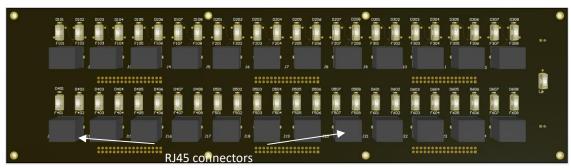
 Redesigned Backplane PCB; modified RJ45 connector layout to two rows of 12 and realigned all parts accordingly



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Backplane PCB render (rear view)

- Sent SHT-35 production files for 4 week manufacture and assembly; PR signed by Marco Battaglieri – 08/17/2021
- Finalized design modifications to the RMC PCB

Hall C - NPS

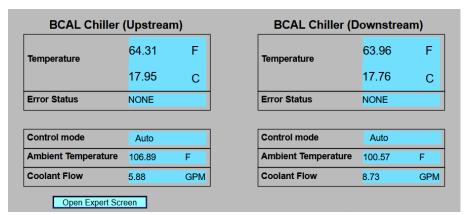
Mary Ann Antonioli, Peter Bonneau, Aaron Brown, Pablo Campero, Brian Eng, George Jacobs, Mindy Leffel, Tyler Lemon, Marc McMullen

- Developing LabVIEW Keysight scanning program; revising program to break up sensor readings by multiplexer
- Developing *Temperature Map* tab for LabVIEW Hardware Interlock Monitoring program

Hall D – Slow Controls

Brian Eng, Tyler Lemon

- ADC module calibration modules wouldn't accept value output (out of range); external calibrator needs to be recalibrated
 - **★** Performed self-calibration on all modules as a temporary measure
- Converted new user-level and expert-level BCAL chillers CSS screens to WEDM



User-level BCAL chillers screen in WEDM. "Open Expert Screen" button links to expert-level WEDM screen below.



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Expert-level BCAL chillers screen in WEDM

EIC

Brian Eng

Attended ECCE and ATHENA tracking meetings

DSG - CAEN HV Test Stand

Mindy Leffel

- Pulled remaining 24 SHV cables through grommets; 48 of 48 complete
- Stripped outer jacket of all cables; attached terminal block and cable strain relief



Stripped jackets of SHV cables, terminal block, and cable strain relief for Radiall-to-SHV adapter