

DSG-RICH R&D Meeting

Date: July 19, 2021

Time: 11:00 AM – 12:00 PM

Attendees: Mary Ann Antonioli, Peter Bonneau, Aaron Brown, Brian Eng, George Jacobs, Tyler Lemon, Marc McMullen, and Amrit Yegneswaran

1. Spherical mirror shipment to JLab from Composite Mirror Applications, Inc. (CMA)

Tyler Lemon

1. JLab shipping authorization form submitted and signed
 - Allows Shipping & Receiving to officially start arrangement of shipping and insurance
 - Waiting on packaging dimensions to finalize arrangements

2. SHT35 sensor PCBs' production order to be placed

Peter Bonneau, Aaron Brown, Pablo Campero, Brian Eng, Tyler Lemon, and Marc McMullen

1. After order is placed, Tyler Lemon will ship SHT35 sensors on hand to Advanced Circuits.

3. Backplane PCB

Peter Bonneau, Aaron Brown, Pablo Campero, Brian Eng, Tyler Lemon, and Marc McMullen

1. PCB dimensions are currently 3.75" x 14", but the possible addition of components may increase its size
2. Tyler Lemon will investigate using RJ-45 ports' built-in LED indicators to indicate I²C communication—LED on during active communication and off when idle.

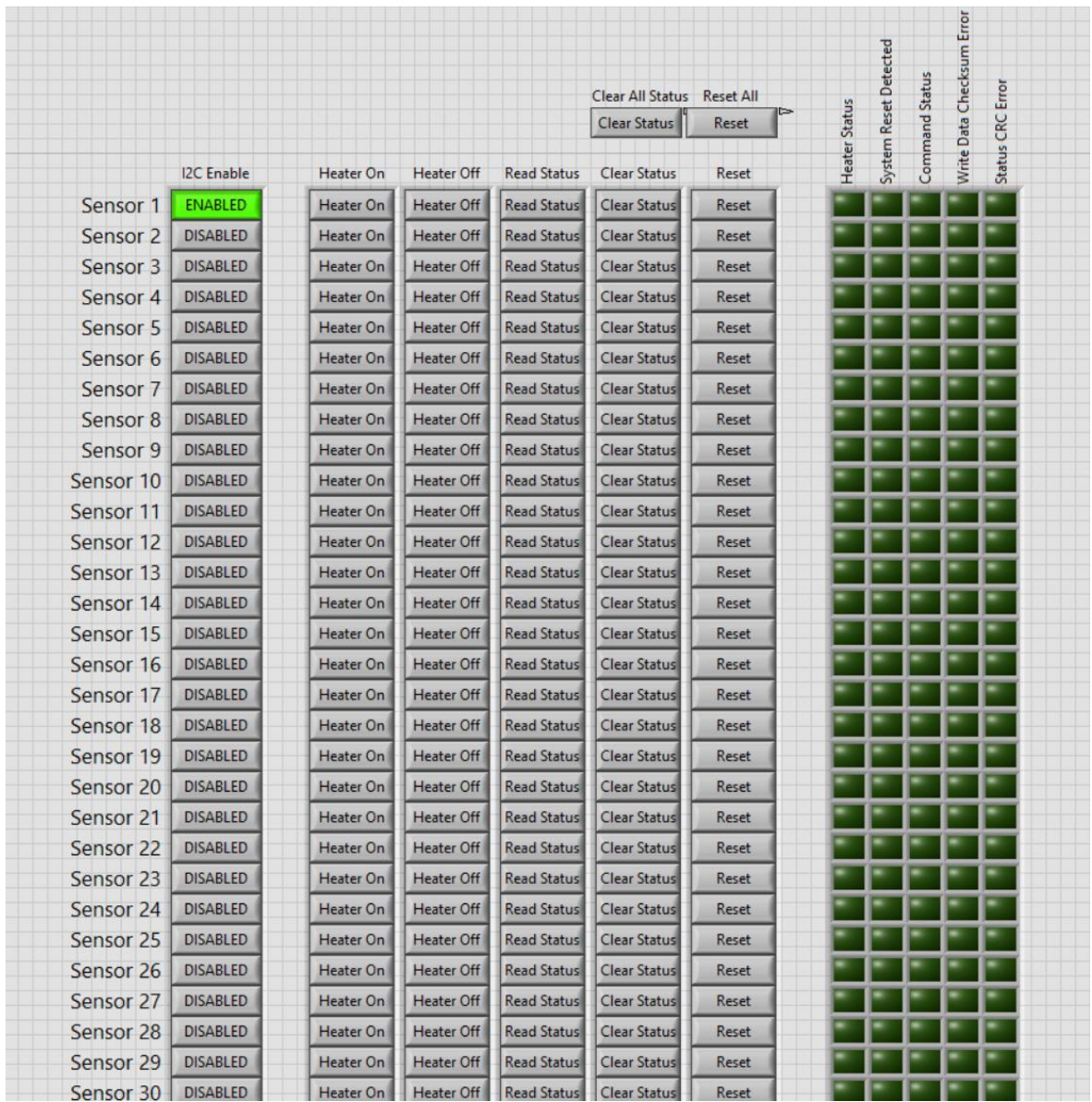
4. RMC review in progress

Peter Bonneau, Aaron Brown, Pablo Campero, Brian Eng, Tyler Lemon, and Marc McMullen

5. RICH-II LabVIEW User Interface

Pablo Campero and Tyler Lemon

1. Indicators and controls to add
 - 48 x 5 Boolean indicator array for SHT35's status readback
 - A 48-element control Boolean array for each of the following:
 - I²C enable
 - Heater on
 - Heater off
 - Read status
 - Clear status
 - Reset
 - Two single Boolean controls for all sensors
 - Clear all sensors' status
 - Reset all sensors



Screenshot of sbRIO program's front panel as an example of controls and indicators needed on the RICH LabVIEW user interface.