



Detector Support Group

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

Weekly Report, 2021-07-07

Summary

Hall A – GEM

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

- Held the monthly status meeting; minutes posted on DSG website

Hall A – SoLID

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

- Verified, for each valve, configurations and parameters used in the enhanced proportional-integral-derivative PLC instructions
- Drew Visio flowchart for *V4 Set He Top Fill Valve* software routine
- Modified drawing A00000-16-03-0101 *Instrumentation Control Panel Rear Panels Layout*
- Reviewed modifications needed for drawings
 - * A00000-16-03-0210 to A00000-16-03-0214 *Temperature sensors Wiring*
 - * A00000-16-03-0406 *Diode and PT-100 Temperature Sensors Cable Diagram*
 - * A00000-16-03-0402 *Cable Diagram for JT Valves*
- Selected required cables to connect temperature sensors' instrumentation
- Researching cables for PLC modules
 - * Selected 10-twisted-pair cable (20 total conductors) for interconnects

Hall B – RICH-II

Mary Ann Antonioli, Peter Bonneau, Pablo Campero, Tyler Lemon

- Reviewing the RIO Mezzanine Card (RMC) circuit board
- Prepared RMC fabrication files for quote
 - * Completed manufacturer's design check
 - * Generating assembly files
- Developing air cooling piping and instrumentation diagram

Hall C – NPS

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

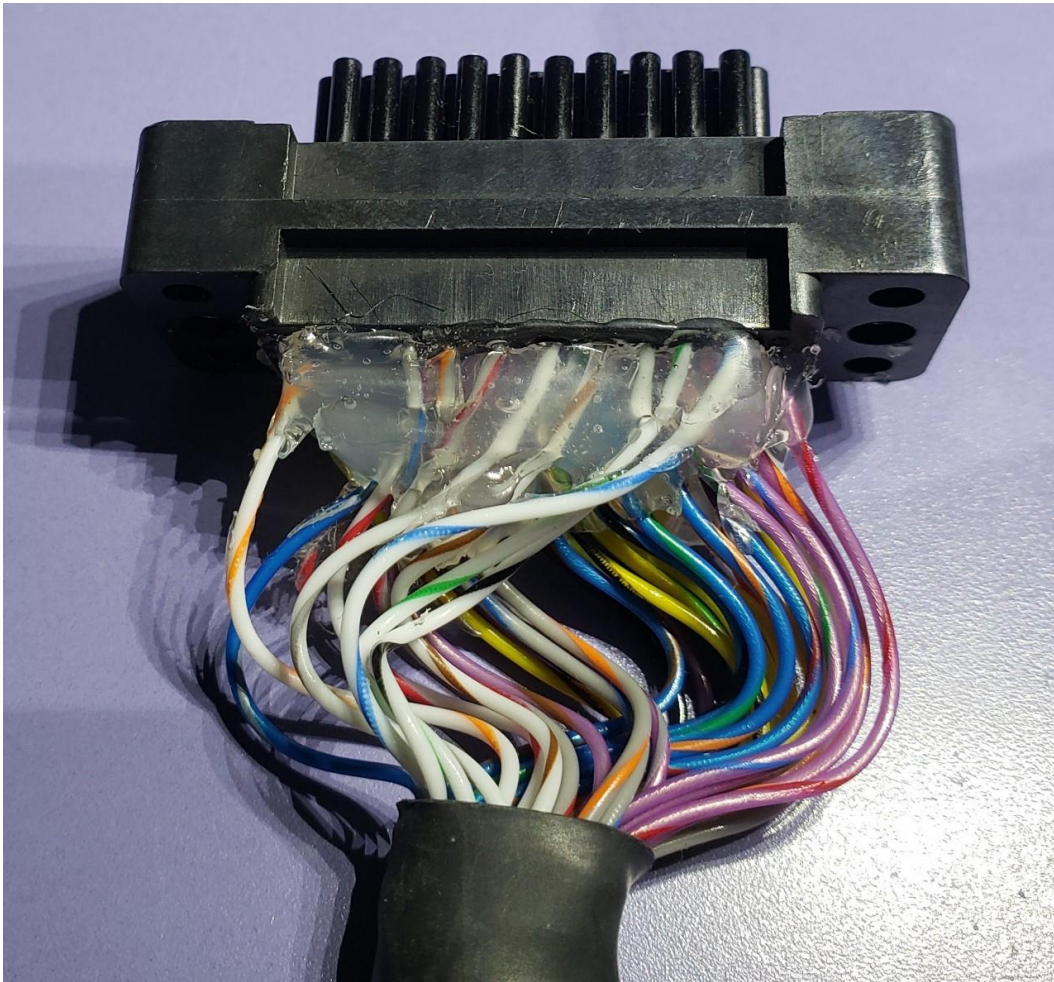
- For the front crystal zone, changed over and under limit LEDs to single LEDs that change color according to set limits
- Reformatting numerical controls and numerical indicators
- Drew Visio flowchart for HV supply cable testing software
- Reviewed hardware interlock system block diagram
 - * Reviewed and revised signal list
- Testing the fabricated HV cables with load
 - * Thirty-five of forty cables tested
- Completed final fabrication steps for eight HV cables; 16 of 40 HV cables completed
 - * Cut screws, heated heat-shrink, and repaired 17 wires

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- Fabricated test cable and secured pins with hot glue to prevent pins from being dislodged



Test cable with hot glue to prevent pins from being dislodged

EIC

Brian Eng

- Meeting with LBL, Berkley, LLNL and BNL/JLab on advancing the disk design
- Developing detailed work breakdown steps and schedule
 - ★ Waiting on input from GEM experts on schedule

Safety

Marc McMullen

- Plan of Actions and Milestones 10 (POAM10) develops updates to the electrical safety program dealing with products from not nationally-recognized testing labs
- Continued reviewing the implementation application document