

## DSG-Hall A ECAL Weekly Meeting

**Date: February 1, 2024**

**Time: 09:30 – 10:30**

*Attendees: Aaron Brown, Jimmy Caylor, Donald Jones, Mark Jones, Simona Malice, Marc McMullen, and Bogdan Wojtsekhowski,*

### 1. DSG – ECAL controls development

1. Power supply interface chassis design is complete
  - PCB review to start this week

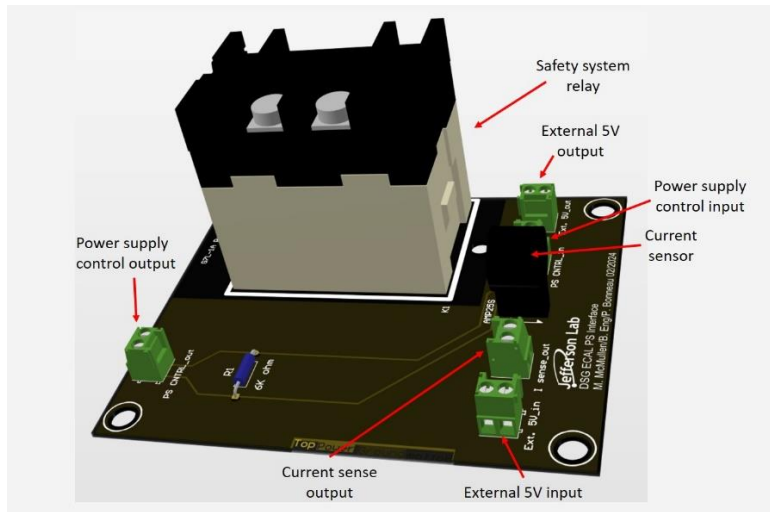


Figure 1. Rendering of PCB, with components, to be used in DSG-designed power supply interface chassis

2. Reviewing cRIO module order for full detector temperature monitoring (crystals, lightguides, and cooling enclosure)

### 2. Six-supermodule test stand

1. Configuring new cRIO and expansion module for six-supermodule test stand

### 3. Full system installation update

1. Power supply frames are assembled and ready for power supply interface chassis installation
2. Simona is testing mu-metal shielding tubes under magnetic field (60 gauss)
  - Using 4", 18-mil thick, mu-metal shielding to reduce field to <1 gauss at 1.5" depth in the tube
  - Ready to start fabrication of 1657 units
3. Supermodule stacking paused briefly to verify the weight of stack in the detector frame
  - Approval to restart was given by the engineers



Figure 2. ECAL detector frame with supermodules stacked

4. Four supermodules have damaged lightguides which will be repaired prior to installation
5. PMT signal testing code has been tested and ready to start verifying PMTs
  - A list of good PMTs will be compiled for assembly
6. Procedure for lightguide, cookie, and PMT assembly is being verified