

## DSG-ECAL Controls Meeting

**Date:** March 20, 2023

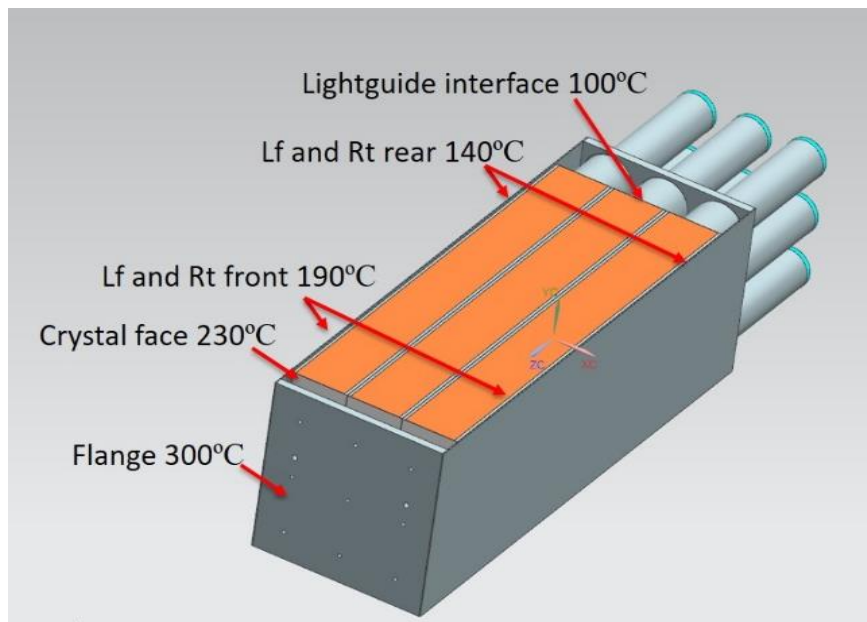
**Time:** 10:00 – 11:00

*Attendees: Peter Bonneau, Aaron Brown, Pablo Campero, Brian Eng, George Jacobs, Donald Jones, Tyler Lemon, Marc McMullen, and Albert Shahinyan*

### 1. Heater controls test update

*Marc McMullen*

1. Presented update on testing of a new cartridge heater design
  - Developed a 4" x 4" x 0.5" aluminum block fitted with two Maxgee 24-V, 70-W heaters
2. Installed the heater block and RTDs for monitoring the temperature of the block, the front flange, and all previous locations from earlier tests
  - Reached the target temperature on the front flange of 220°C

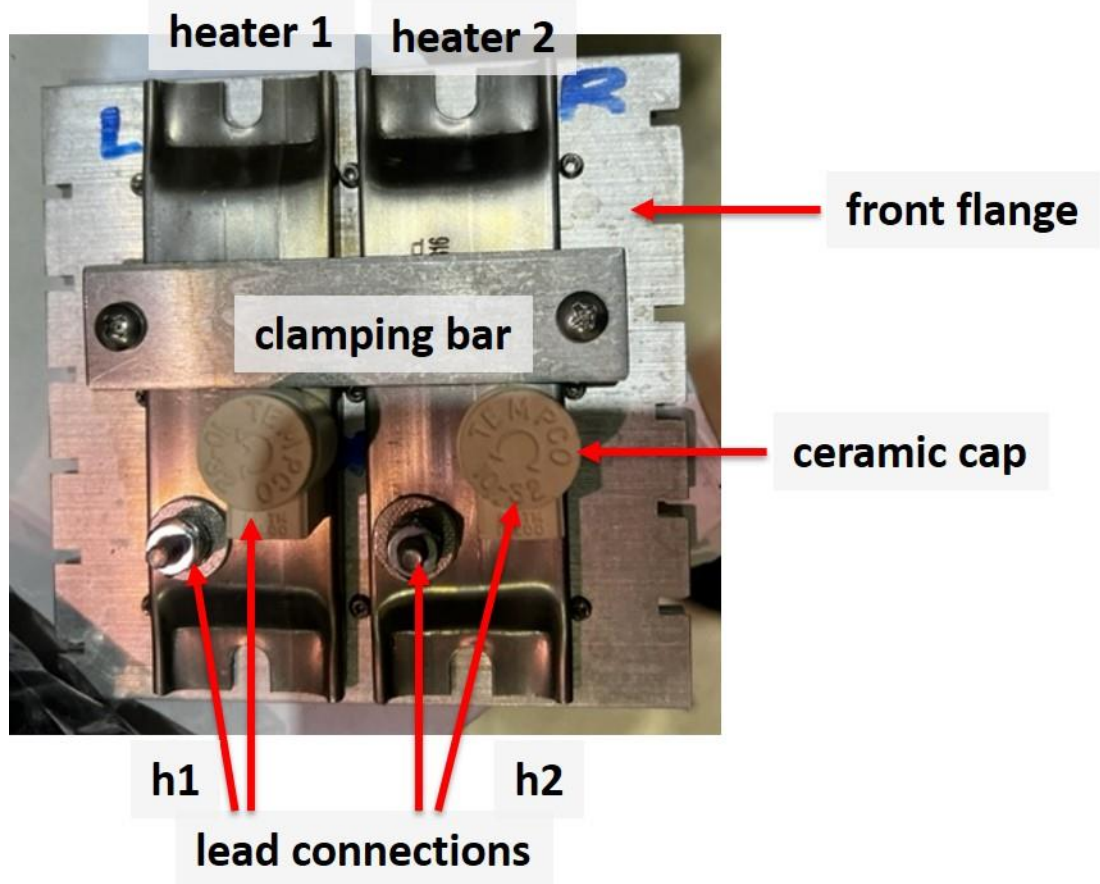


### 2. Six supermodule test stand

*Hall A/DSG*

1. Hall A has started fitting each front flange of the supermodules with two Tempco 125-W strip heaters

**Tempco CSH00338 E2226  
125W 120V strip heater**



- DSG will control with Omega high temperature PT100 RTDs and Lowell RPC-20-CD relay modules
2. Hall A is determining the best heater (cartridge or strip) for the boundary aluminum bars
  3. DSG will modify the cRIO controls
    - The six supermodules will be divided into two groups of three supermodules each, and each supermodule flange temperature will be monitored individually
    - Omega high temperature PT-100s will be used to read the temperature
  4. Hall A will continue to monitor the array of thermocouples using the Raspberry Pi