



Detector Support Group

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

Weekly Report, 2022-08-03

Summary

Hall A – ECal

George Jacobs, Mindy Leffel, Tyler Lemon, and Marc McMullen

- Completed NX12 model of Supermodule for use in Ansys thermal analysis
- Modifying model for Ansys steady-state thermal analysis for heating a Supermodule using thermal tape on its end plate
 - ★ Very thin aluminum (< 0.1 mm) wrapped around crystals and light guides is causing problems with meshing
 - ★ Investigating new meshing strategy for thin bodies

Hall A – GEn-II

Mindy Leffel

- Fabricated eight twisted pair RTD cables; 16 of 42 complete

Hall A – SoLID

Pablo Campero, Brian Eng, Mindy Leffel, and Marc McMullen

- Troubleshoot liquid level monitors' cabling issues – were wired for current output, but switched to voltage output as PLC is wired for single ended voltage
- Repaired recessed pins on nine MS connectors and added a jumper to each connector
- Removed and replaced eight resistors on two constant current source boards

Hall C – NPS

Mary Ann Antonioli, Peter Bonneau, Aaron Brown, Pablo Campero, Brian Eng,

George Jacobs, Mindy Leffel, Tyler Lemon, and Marc McMullen

- Tested and debugged chiller communication LabVIEW drivers; works as expected
- Debugging Phoebus hardware monitoring and interlocks screens
- Connected dual temperature and flow sensor of Proteus Industries vortex flow meter to Keysight terminal block and monitored readback using hardware interlock LabVIEW program
 - ★ Compared temperature and flow Keysight readout to chiller front panel readout and chiller test LabVIEW program set-points and readout – no issues noticed

EIC

Pablo Campero, Brian Eng, and George Jacobs

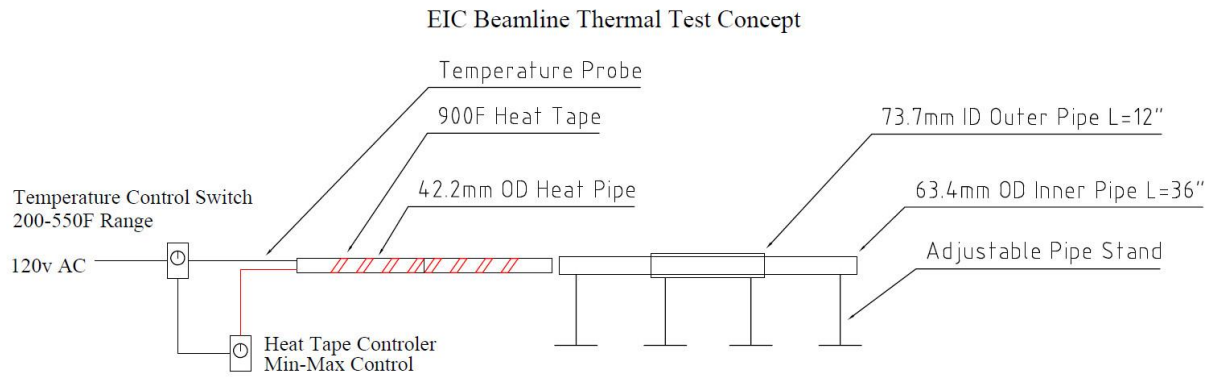
- Developing beam pipe thermal test station setup



Detector Support Group

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

Weekly Report, 2022-08-03



AutoCAD drawing of proposed beam pipe thermal test setup

DSG R&D – EPICS Alarm System

Peter Bonneau

- Debugged and tested alarm server process variable (PV) .XML configuration file for Phoebus version 4.6.10
 - ★ Alarm server successfully completed the initialization and start-up monitoring for the Phoebus test system softIOC PVs
 - ★ Testing system for PVs in the alarm state