

January 19th Barrel Electronics Video Conference minutes

Agenda Items:

- status of orders & current schedule for board delivery at CERN
- tests of AR2F at PENN
- any board repair news
- report on preparations for board irradiation
- update from SR
- parts and plans for barrel system test.

Irradiation:

2 out of the 4 needed backend cables have been made. We still need molex connectors and bulk cables for low voltage. These cables are expected to be about 0.2 ohms over 50m so we don't expect to have any problems with the voltage drop. Ole is playing with the TTC read-back threshold. There was a bug in the firmware that kept it from working properly up to now. There are no pressing issues here and Ben and Ole are confident that it will work smoothly.

Status of Active Roof orders and schedule:

AR2F: pre-series stuffing kit will be sent out early next week

AR3F: 22 panels have been received from CORETEC. The rest are expected soon.

AR3B: ACAMAS is starting the pre-series on Monday.

AR2F tests at PENN:

Mitch has looked over AR2FS rather carefully. He is down to single channel errors, which are most likely chip-based. One surprising bit of news is that the data-outs are reversed with respect to what was expected. That is, the data-out polarity for AR2F is the same as for type 1 and type 3. This will need to be passed on to the people making the harnesses at Dubna.

Board repair news:

So far there are 7 boards that are in process. 1 has been entirely repaired. There are 3 people who are sharing the work. The production board test software has not been set up to run at PENN yet because there has been no time to build a proper cable (that addresses all of the chips at once).

SR update:

50 type 2 boards have undergone re-testing and preparation (cooling plate, recording ASD serial numbers, etc) in 5-6 days of work for 2 people (Alex and Chuck). They will begin being installed on the BSS next week. With the return of the type 1 test beam boards, we now have the full compliment of type 1 boards and hope to finish the type 1 installation by the end of the week.

Parts and plans for barrel system test:

There is a front-side harness that is half finished at PENN. The cables are measured and cut but have no connectors on them. Since it will not be useful before more front-side boards arrive at CERN, there is no rush to get this done before the end of February. The LV regulators are still a limiting factor in this. Brig made the suggestion of building more system-test patch panels and just stuffing the LV part.

This was discussed briefly and seemed reasonable. We will need to check if the regulators are still available.