

VELO UPGRADE MECHANICS MINUTES

Attendees: Raphael, Wolfgang, Themis, Kieran, Vinicius, Claudia, Wiktor, Oscar

ACTION LIST

- No actions listed

DISCUSSION

1.1 MODULE HANDLING @LIV

Handling specs required, module producer should show to LIV the handling.

1.2 TRANSPORT OF THE DETECTOR TO CERN AND DUMMY PRE-INSTALLATION

still some things to be specified e.g. how many g's the frame should be able to absorb etc. Proposed schedule for dummy transport and dummy pre-installation with A-side Base (+ dummy weight, isolation volume and valves) is fine for LIV (KW 12/2020, 16-20/3).

1.3 BASE METROLOGY AT LIV

VSTAR measurements are now being written up.

For the travelling microscope, design work for cover and rails is done. The system will be useable for A and C side. The system will only be able to measure in Z direction. Positioning is a challenge, likely will measure distance of tip of module compared to tip of others. Still ongoing, short lead time for order of microscope and rails. Cover to be produced in the workshop in LIV, still in workshop queue.

John was asked to produce a plot with x (slot number) and y (distance between tip of a perfect module to a perfect foil position) with this base to see deviation from the 890 μ m nominal distance. Then we could choose for installation shorter modules where the margin is smaller etc.. Vinicius is doing math.

1.4 BEEP MODULE FOR FOIL TO TIP OF THE MODULE MEASUREMENTS

The pieces to be produced in LIV on the dummy frame for the beep module are still in the workshop. Rails are done, side pieces ongoing, then shipment to CERN.

1.5 CABLING FOR PT100 IN SECONDARY AND ISOLATION VOLUME

Delivery of second batch of cables end of January. A little piece of cable should be sent to CERN for halogen content test.

I.6 FILLER INSIDE SAFETY VALVES

There is a green gasket between the top and the base of the valve, which consists of PTFE coated steel, want to have silver coated gaskets.

I.7 AOB

Themis: Schedule for testing @LIV: want to have a half of a VELO half test first to find problems with multi-module running, planned to have first of March first module mounted.

Fine machining of A-side hood ongoing, not before April.