

Minutes and Actions of Module Loading Feedback (MLF)

Phone conference – 13th of June 2005

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Site Qualification Task Force (SQTF)

Phone Conference – 16th of June 2005

Module Loading Feedback – MLF

CPPM – Jean Claude reported that 17 MCC-unpotted modules (11 ranked for L2) and some more MCC-potted modules from Genova are available at CPPM. He asked if it is better to use some B-layer modules or mix potted/unpotted for this week stave loading. Consensus was that he should use a mix of pot/unpot. Genova has sent today 9 modules to CPPM and Bonn is sending other modules to them.

Genova – Claudia reported that modules are available for this week stave and next week is not foreseen any loading.

Wuppertal – Peter has not enough modules with not potted MCC for a L2 stave in Wuppertal. There are more available in Bonn (9) and in Dortmund (10). Those modules must be sent to Wuppertal.

Site Qualification Task Force - SQTF

Present: J.C. Clemens, G. Darbo, K. Einsweiler, M. Garcia-Sciveres, D. Giugni, F. Hügging, V. Kostyukhin, G. Lenzen, D.B. Ta.

Excused: P. Gerlach, E. Vigeolas.

Module Loading Site Qualification TF - SQTF

Agenda.

1. Latest news on delamination fix and restart of stave loading
2. Module availability for next staves/sectors
3. Cooling fittings and cap removal tool
4. Corrosion of aluminium pipe
5. Talks in the ID week
6. Document from Attilio

1. Dealamination fix

Danilo reported of the second pull and torque test made on the fastener modified staves (adding a peek collar fixed with screws to the TMT). The results of pull test gave a force of 280.4 N (in the first test was 123 N) to delaminate the omega/aluminum pipe and a torque of 1.79 N/m (in the first test 0.67 N/m) to break it. Marseille measured in their tests a maximum force of about 5kg (between 2kg and 5kg) to delaminate the two pieces. Also the torque measured by Marseilles, being 0.3 N/m is considerable lower. Difference of first and second test was the way of fixing the TMT to perform the pull test. All the bare staves will be fixed with the peek fasteners. Full report prepared by Danilo and al. is available at:

http://www.ge.infn.it/ATLAS/SQTF/Minutes/Minutes_05-06-16_aux/Fastener_fix_V2.pdf

The pull force has increased considerably in this new test due to the gluing of the TMT surface to

First five bare staves from Marseilles have been received at CERN. Three of them, modified, have been already sent to the loading sites that received them on Tuesday this week. They have holes and the conductive glue spot grinded flat to house the peek collar. This has not been mounted because not available at the time. Marseille and Wuppertal will use them as next stave for loading. For Genova was not possible to delay the loading procedure to wait for them unless missing the loading of a stave before the ID week. Genova used a not modified bare stave after a not destructive pull test with 1 kg force and accurate check of the glue joint between TMT and omega.

10/20 bare staves will be sent to CERN from Marseilles to be fixed, 18 peek collars have been sent from Genova and received at CERN.

Fixing of loaded staves is more critical and not tested and qualified yet. Giovanni and Kevin, will review the procedure proposed for the loaded staves in a visit they will do at the SR building on next Monday (20/06/2005). If accepted, the Genova delaminated loaded stave S4030 will be tried next. A connectivity test will be performed at CERN to check for damage, and a new full qualification will be performed at Genova. Decision for other loaded staves will be taken upon results obtained.

3. Cooling fittings and cap removal tool

No news from availability of modified cooling fittings, Eric was not available for comments. The cap removal tool (see minutes of [3/06/2005](#)) adopted in all sites is in production at Genova / CPPM and Wuppertal.

4. Corrosion of Al fittings

The loaded stave 4055 from Wuppertal shows a delamination of nickel from the cooling fittings. The same as has been observed in the FE-I2 stave from Wuppertal. Already in that case Danilo successfully repaired it by means of a polishing disk mounted on a driller kept coax to the pipe. The stave 4055 will be sent to Danilo to do the polishing and then back to Wuppertal for testing. The stave cannot be made leak tight with rubber O-ring and so it cannot be tested. Pictures of the delaminated fittings are:

http://www.atlas.uni-wuppertal.de/staveprod/stave_4055_pics/

5. Talks in the ID week

The proposed talks and speaker for the module loading part of the module meeting that will be held on Tuesday of the next ID Week are:

1. Stave qualification: status and open questions (C. Gemme - 20 min)
2. Visit at stave loading sites: review and actions (M. Garcia-Sciveres - 20 min)

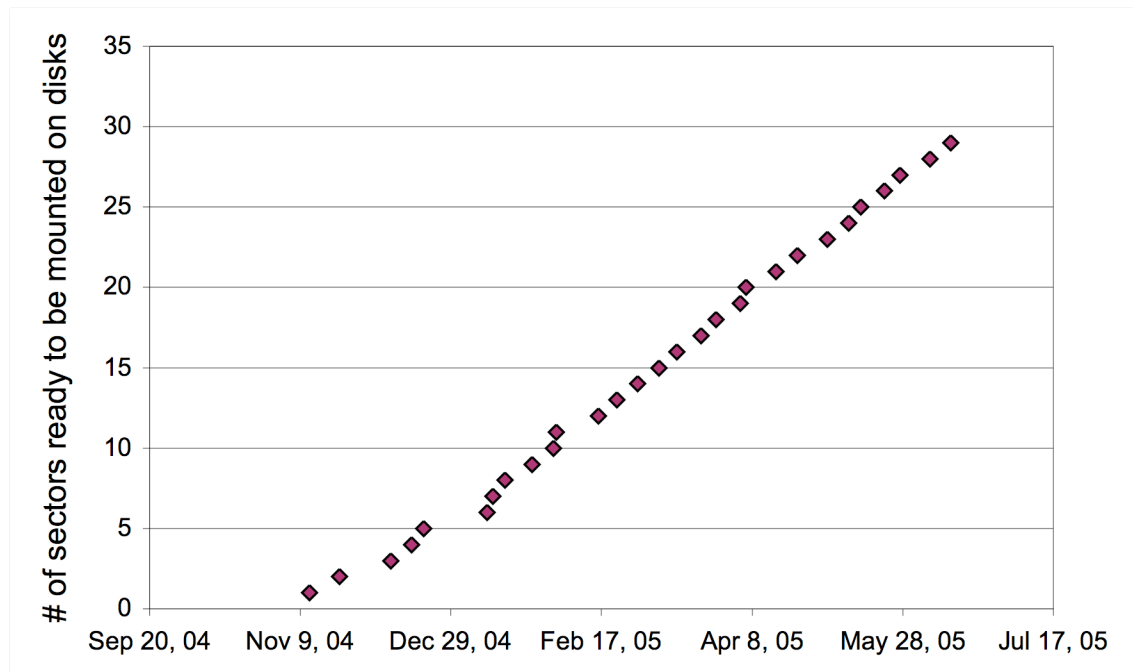
3. Retrofits done on sectors during ring loading (M. Garcia-Sciveres – 20 min)
4. Schedule of Stave Loading (G. Darbo - 20 min)

6. Document from Attilio

Attilio sent a document (prepared by a Milan student: Valentina Silvestri) with analysis of the thermal performance of the loaded staves. The analysis was made to define better weights to give to the $\Delta T/W$ measurements for stave ranking (see: http://www.ge.infn.it/ATLAS/SQTF/Minutes/Minutes_05-06-16_aux/Staves2.pdf). Attilio also sent some consideration on changes he proposes for the PDB (see: http://www.ge.infn.it/ATLAS/SQTF/Minutes/Minutes_05-06-16_aux/SomePointsForSQTF.rtf). Attilio was not available for more discussion. We will postpone the discussion to next ID week or SQTF.

7. Sector production.

Marian sent an updated excel file with the production status of the sectors in LBL. 29 sectors are completed. The production curve is shown below. The excel file is: http://www.ge.infn.it/ATLAS/SQTF/Minutes/Minutes_05-06-16_aux/Sectors.xls



Next SQTF phone-conference: Thursday 30th of June at 17:30.
Next MLF phone-conference: Monday 27th of June at 17:15.